

Due Diligence Report – Social Safeguards (Involuntary Resettlement)

Project Number: 42486-016
August 2016

**IND: Madhya Pradesh Urban Services Improvement
Project – Water Supply Improvement in Sagar**

Package No.: MPUSIP–6B

Prepared by the Government of Madhya Pradesh for the Asian Development Bank.

This due diligence report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

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Land Acquisition and Resettlement Due Diligence Report

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August 2016

IND: Madhya Pradesh Urban Services
Improvement Program –
Sagar Water Supply Scheme, District: Sagar

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CURRENCY EQUIVALENTS

(as of August 22 ,2016)

Currency unit	=	Rupee (INR)
INR 1.00	=	USD 0.0148
USD 1.00	=	INR 67.02

ABBREVIATIONS

ADB	-	Asian Development Bank
AP	-	affected person
BPL	-	below poverty line
CPP	-	Consultation and Participation Plan
CBO	-	community based organization
DBO	-	design-build-operate
DC	-	design consultants
DLI	-	disbursement-linked indicators
DP	-	displaced person
DSC	-	design and supervision consultant
EA	-	executing agency
GLSR	-	ground level service reservoir
GOI	-	Government of India
GOMP	-	Government of Madhya Pradesh
GRC	-	Grievance Redressal Committee
GRM	-	Grievance Redress Mechanism
HHs	-	households
IA	-	implementing agency
IR	-	involuntary resettlement
KM	-	kilometer
MPUDC	-	Madhya Pradesh Urban Development Company
OHT	-	overhead tank
O&M	-	operation and maintenance
PBC	-	performance-based contract
PDA	-	project design advance
PHED	-	Public Health Engineering Department
PIU	-	project implementation unit
PMC	-	project monitoring consultant
PMU	-	project management unit
PO (SSG)	-	Project Officer (Social Safeguard and Gender)
PPTA	-	project preparatory technical assistance
PWD	-	Public Works Department
R&R	-	resettlement and rehabilitation
RF	-	Resettlement Framework

RFCTLARR	-	The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013
RP	-	Resettlement Plan
ROW	-	right of way
RWA	-	Resident Welfare Association
SIA	-	social impact assessment
SO	-	Safeguard Officer
SPS	-	Safeguard Policy Statement
TA	-	technical assistance
UADD	-	Urban Administration and Development Directorate
UDED	-	Urban Development and Environment Department
ULBs	-	urban local bodies
WRD	-	Water Resource Department
WTP	-	water treatment plant

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I. INTRODUCTION

A. Background

1. Government of Madhya Pradesh (GoMP) with a sector project loan funding from Asian Development Bank (ADB) has proposed to implement Madhya Pradesh Urban Services Improvement Project (MPUSIP), herein after referred as 'the Project'. Madhya Pradesh Urban Development Company Limited (MPUDC) shall be the Implementing Agency (IA) and the State Urban Development and Environment Department (UDED) shall be the Executing Agency for the Project. A project management unit (PMU) created under MPUDC is implementing MPUSIP.

2. MPUSIP's physical components include (a) improvements to water in 64 project towns, and (b) sewage and storm water collection and treatment services proposed in four (4) identified towns (Khajuraho, Rajnagar, Sanchi and Maihar). The project also includes an institutional strengthening component and a project management and administrative support component.

3. The Resettlement Framework (RF) for MPUSIP outlines the objectives, policy principles and procedures for land acquisition, if any, compensation and other assistance measures for Displaced Persons¹ (DPs)/Affected Persons (APs), if any. The framework reflects the borrower's law on the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013, state government policies, ADB's Safeguard Policy Statement (SPS), 2009 and other social safeguard guidelines. A detailed description of compensation measures and assistance is provided in the entitlement matrix.

B. Scope of this Report

4. This land acquisition and resettlement due diligence report is prepared for the proposed water supply augmentation scheme for Sagar Municipal Corporation located in Sagar district. Proposed subproject components involving new construction or civil work include: (i) water treatment plant (new unit of 5.4 MLD to augment existing WTP facility), (ii) break pressure (BP) tank of 375 KL capacity, (iii) storage reservoirs (one ground-level service reservoir of 3700 KL capacity and two elevated service reservoirs of capacity 900 KL and 2400 KL), (iv) repairs and maintenance of existing raw water (1090 m) and clear water rising mains (8100 m), (v) new clear water gravity mains of about 1.8 Km length; (vi) new distribution network pipe laying (255.163 Km); and (vii) 60173 house service connections.

5. The proposed subproject will provide metered water supply connections to domestic, institutional and commercial users; 100% coverage of households in all municipal wards in the town is envisaged, covering a population of 273357 (as per Census 2011). Certain components of the subproject, including source, intake, water treatment facility, break pressure tank and part of the main pipelines will be common for water supply to Sagar Municipal Corporation, the Cantonment Area of Sagar, Military Engineering Services area and Makroniya town, to cater to an estimated population of 685000 in 2048.

¹ In the context of involuntary resettlement, displaced persons are those who are physically displaced (relocation, loss of residential land, or loss of shelter) and/or economically displaced (loss of land, assets, access to assets, income sources, or means of livelihoods) as a result of (i) involuntary acquisition of land, or (ii) involuntary restrictions on land use or on access to legally designated parks and protected areas. It covers them whether such losses and involuntary restrictions are full or partial, permanent or temporary

6. A due diligence process was conducted to examine the land acquisition and resettlement issues in detail, in line with ADB SPS 2009. This report describes the findings and provides copies of relevant documents, resolutions, minutes of meetings and photographs. This land acquisition and resettlement due diligence report needs to be read along with the Resettlement Framework prepared for MPUSIP.

7. Upon project implementation, the Project Officer (Social Safeguards and Gender) at PMU, MPUDC will be required to undertake a review of this due diligence report, prepare a confirmation letter or report documenting any modifications to the subproject and submit to ADB; and receive a 'no objection' confirmation from ADB prior to start of construction in the subproject.

II. POLICY FRAMEWORK, AND ENTITLEMENTS

8. The Resettlement Framework (RF) prepared for MPUSIP sets out the objectives, principles, eligibility criteria and entitlements for APs, based on ADB SPS, 2009 and LARR 2013 as well as national and state laws for protection of street vendors. Until recently, all activities related to rehabilitation and resettlement in the State of MP had been based on the Madhya Pradesh Resettlement and Rehabilitation Policy, 2002 (MPRR) and National Rehabilitation and Resettlement Policy, 2007 (NRRP-2007). GoMP adopted LARR 2013 on 3rd October, 2014 with some specifications for operationalizing its implementation in the state.² Details of policies are in the Resettlement Framework for MPUSIP.

III. SUBPROJECT DESCRIPTION

9. **Project area:** Sagar Nagar Nigam currently has 48 wards spread over an area of 3375 hectares, of which the developed area is only 928 hectares. Sagar is one of the fastest growing towns of Madhya Pradesh, where the present water supply is inadequate to meet the demand of the growing town. Presently, the town faces acute water shortage, and augmentation works need to be taken up on priority basis.

A. Existing Water Supply

10. **Earthen dam and spill way:** There is an earthen dam with provision to store 96 MCM of water at Reduce Level (RL) 517.00 meter. At present, however, this dam has been constructed up to RL 515.00 meter. The length of earthen dam and spill way is 1280 m and 400 m. respectively. The storage capacity of the dam at this level is 62.74 MCM.

11. **Intake well and approach bridge:** There is an existing 12 m diameter 31 m high intake well, with a 150 meter long RCC approach bridge; repair and maintenance of the same is necessary.

²These GOs issued separately in September 2014 (i) notifies administrative cost of land acquisition; (ii) appoints Divisional Commissioners as Commissioner for Rehabilitation & Resettlement within their respective jurisdictions; (iii) authorizes District Collectors for constituting an Expert Group separately in respect of each project, (iv) notifies the factor which the market value is to be multiplied in case of rural areas, (v) appoints Officer-in charge of Land Acquisition Section in the Office of the Collector as Administrator for Rehabilitation and Resettlement and (vi) limits agricultural land acquisition, as required by the RTFCLARR, 2013.

12. **Raw water pumps:** Four raw water turbine pumps, each having a discharge capacity of 547 lps at 23 m head, have been installed. These pumps are installed to fulfil the water requirements up to 2011.

13. **Raw Water Rising Main:** Raw water rising main of 1000 mm diameter and 1090 meter length of M.S. pipe with inline and outline coating.

14. **Treatment plant and Sump:** Presently, a treatment plant of 82.5 MLD capacity is in working condition, while a very old treatment plant of 13.5 MLD is out of use due to damage, and cannot be repaired.

15. **Service Reservoir:** The following 6 tanks at locations mentioned below and BP tank of 375 KL capacity at Dugdugi hill have been completed. The tanks are in: (i) Makroniya Zone (4500 KL, not for Sagar City); (ii) Pant Nagar Zone (4500 KL); (iii) Vittal Nagar Zone (3500 KL); (iv) Cantonment Zone (3500 KL); (v) Itwari Zone (2500 KL); (vi) Purvyau Zone (2500 KL). The total capacity of all existing reservoirs is 15820 KL, against current demand of 20500 KL.

16. A total of four raw water turbine pumps are installed, having a discharge capacity of 547 lps at 23 meter head, but the pumps are old and not suitable for the present requirement and need replacement.

Table 1: Existing Distribution System details of Sagar Municipal Corporation

S.No.	Distribution	Length	Remarks
1.	Pipeline laid during 2003-2005 (i) CI pipe (ii) AC pipe	40.315 km 33.285 km	Available for reuse To be Discarded
	CI & AC pipe line laid as per old scheme of 1958	139 km	To be discarded Badly damaged
2.	Pipe available for reuse	40.315 km	

OHT	5 No.s
Distribution System	Yes (73165 meters, 100-500 mm dia CI)
Intake well	12 meter dia, 31 meters height
Raw water rising main	1090 meters of 1000 mm dia MS pipes
Treatment Plant	82.5 MLD
Clear Water Rising Main	8100 meters of 1000 mm dia MS pipes
Present water availability	82.5 MLD
Per capita supply	55 LPCD

Note: Presently, water is supplied for 1 hour, every alternate day in Sagar town.

B. Proposed Water Supply

17. The proposed Sagar Water Supply Improvement Project aims to bridge the gap in urban demand, set right the inadequacies in the existing system and provide a safe, reliable, sustainable and increased access to improved water supply service for the city's residents. The primary objective of the proposed service improvements is to achieve (i) safe and sustainable water services both in terms of services to residents and cost recovery, and (ii) conservation of precious water resources. The project envisages 100 percent coverage of population with continuous, pressurized and safe drinking water services and achieving progressively increasing cost recovery by expanding coverage and increasing operating efficiency.

18. The proposed subproject components of Sagar water supply include:

- i. WTP of 82.50 MLD is already available at Rajghat dam while the requirement is 90.6 mld in 2033. Therefore, WTP of balance required capacity of 5.4 MLD is proposed.
- ii. Two elevated service reservoirs of capacity 900 KL and 2400 KL capacity, at Sanichari and Pant Nagar respectively, a ground level service reservoir of 3700 KL, and a BP Tank of 375 KL are proposed.
- iii. Repairs and maintenance of existing raw water rising mains and clear water rising mains is proposed. New clear water gravity main of 350 mm dia and length 1.837 Km is proposed to feed the proposed new ESR at Sanichari.
- iv. Proposed laying of distribution network of 255.163 Km.
- v. Construction of boundary wall of reservoirs, WTP.

Table 2: Photographs of River near Rajghat Dam



IV. FIELD WORK AND PUBLIC CONSULTATION

A. Outline of Field Work

19. Field inspection of proposed subproject facility locations and pipeline alignments that had been identified, was undertaken during field visits, along with stakeholder consultations. All the land requirement for the proposed subproject components will be fulfilled by government land.³

B. Public Consultation

20. Consultations were undertaken with key stakeholders in line with ADB's requirements related to environment and social considerations. Focus group discussions (FGD) with the communities adjacent to sites of intake well, water treatment plant, proposed overhead tank etc. was also undertaken. Focus group discussions and meetings were held with the local community and institutional stakeholders like engineers and workers of the Urban Local Body (ULB), Water Resource Department, Forest Department, Public Works Department, National Highway Authority, District Administration, Health Department, Geological Department and others. Various issues that may arise during and post execution of work was discussed and necessary mitigation measures proposed. Tools used for consultation were public consultations and meetings. The outcomes of consultations are summarized below:

- i. The consultations helped identify the felt needs / concerns and apprehensions of the communities related to the project and priorities of concerned stakeholders.
 - ii. Consultations revealed that people are aware of the problems of the existing water supply system in the town, greatly perceive the need for the project and are willing to cooperate in the proposed project.
 - iii. Consultations with key stakeholders revealed that drinking water supply system is a problem area for the town and they will accept the project in its entirety.
 - iv. The ULB officials had apprehensions regarding the project : whether it will be a financial burden to the Municipal Corporation, especially in view of the fact that the Municipal Corporation does not have capacity or resources to repay the loan.
 - v. Consultations were carried out with tribal community members, who expressed their perceived difficulty in payment of water charges, and requested for a special consideration or subsidy to make improved water supply affordable for them and ensure their inclusion in project benefits.
21. The **major stakeholders** targeted during consultations include:
- (a) **The municipalities, its elected members and staff** who will be required to oversee the construction of the distribution networks and WTP as well as be directly responsible for the maintenance of the installations
 - (b) **Local residents** who will take initiative to connect their houses with the water distribution line.
 - (c) **Local business people and traders**

³ The details of land ownership, present use, plot/khasra number and area of selected lands for subproject components are presented in **Appendix 2**.

- (d) **School students and college students**
- (e) **Community whose livelihood is related to the river** e.g. washer men, boatmen, fishermen.
- (f) **Opinion makers** who are intimately acquainted with and well regarded by the community. They need to be enlisted in spreading environmental awareness within the community as well as in conveying the benefits of the project.

22. The minutes of meetings and focus group discussions with stakeholders are presented in **Appendix-3**.

V. LAND AVAILABILITY AND INVOLUNTARY RESETTLEMENT IMPACTS

A. Involuntary Resettlement

23. No land acquisition or resettlement impacts are anticipated for any of the proposed civil works for Sagar water supply subproject. The existing intake well is on Rajghat dam at Bebus village. As per ULB records, the land for construction of Rajghat dam, intake site and WTP site was acquired and all due compensation paid to 69 private landowners in the period 1993-98. The scheme was executed by PHED and assets created handed over to Sagar Municipal Corporation.

24. Raw water abstraction for Sagar town is proposed from Rajghat Dam utilizing the existing intake (with enhancement of pump capacity); the water is then proposed to be treated and supplied to the town.

25. A water treatment plant (WTP) of capacity 5.4 MLD is proposed to be constructed adjacent to the existing WTP at Rajghat road. A 150 mm diameter DI K7 pipe is proposed to be laid as gravity main. The total length of proposed raw water gravity main (RWGM) is 4001 m. The land required for WTP is owned by the ULB. The existing WTP land was not acquired in anticipation of ADB funded MPUSIP; it was acquired by Sagar Municipal Corporation in the year 1998, when the existing WTP was constructed. All other sites required for subproject components belong to Government of Madhya Pradesh, so only land transfer is required from the Revenue Department. Pipes are proposed to be laid within road RoWs under the jurisdiction of Sagar Municipal Corporation.

26. A break pressure (BP) tank (375 KL) is proposed at a distance of 2 km from the WTP on Rajghat Dam Road, towards Sagar; the land for BP tank belongs to Revenue Department. The tank is proposed on a hillock, adjacent to an existing tank. The pipe RoW to and from the BPT will be on the hillock (government land) and adjacent government road RoW. No IR impact is anticipated as a result of the proposed BPT at the location.

27. A ground level service reservoir (GLSR) of 3700 KL capacity is also proposed at Jhiriya Mata temple near the University; the land belongs to Revenue Department. There is a defunct GLSR adjacent to the proposed site, which will be abandoned. An electrical transformer located at the site for proposed GLSR is lying unused and will be dismantled. No IR impacts are anticipated as a result of these proposals.

28. Two new overhead tanks are proposed, one at Sanichari (900 KL) and another at Pant Nagar (2400 KL):

- i) The Sanichari site for proposed ESR is vacant land located behind an SMC health centre / clinic, currently operated by the Zilla Parishad. There are several abandoned old structures within the compound, which will not be affected as a result of the proposed intervention. A few government quarters are also located within the compound; no impact to these residential structures is envisaged. Inconvenience to the residents must be minimised during construction by the contractor by ensuring that access to the houses is never blocked due to materials on site etc. Residents living in the vicinity of the Sanichari ESR have been consulted and expressed the need for improved water supply (as they need to fetch water from a distance and carry it a short distance uphill) and individual service connections.
- ii) The Pant Nagar site for proposed ESR belongs to SMC and is adjacent to a municipal sweepers' colony. There is an existing proposal to provide housing to municipal sweepers under Rajiv Awas Yojana at another location; it was confirmed during consultations that applications for the housing scheme were filed long back, and were not in anticipation of MPUSIP. No demolition of structures or relocation is anticipated as a result of the proposed facility at the location.

29. Existing raw water rising mains (RWRM), clear water rising mains (CWRM) and clear water gravity main (CWGM) are proposed to be used, with some repairs and maintenance work. The existing transmission main passes through unused/vacant/barren public lands / road RoW of State Highway 11 and municipal roads. A new clear water gravity main of dia 350 mm and length of 1.837 Km is proposed from Civil Lines Junction (J9) to feed Sanichari ESR, will be laid within municipal road RoWs.

30. The proposed distribution network (255.163 km of new pipelines) in Sagar will be laid, and 40.315 km existing lines will be used. The proposed distribution pipelines will be laid within the road RoWs of Sagar Municipal Corporation and is not anticipated to cross private land anywhere in the town. Details of land ownership for each of the proposed water supply components to be constructed, are given in Appendix 1. Pipe laying activity on roads in the most congested market areas and densely built-up areas has been carefully planned to avoid IR impacts including temporary economic impacts to hawkers, shops and businesses. Mobile hawkers and vendors have been witnessed along the road side for a significant part of the distribution network alignment.

31. Civil works in the project include linear excavation for laying pipes along the roads, placing pipes in the trench and refilling with the excavated soil. The trenches will be 0.4 m – 0.7 m wide and 0.8 to 1 m depth. Subsequent to completion of works, road reinstatement will be undertaken by the contractor as part of the civil works. No necessity for full closure of roads is identified.

32. Laying of gravity mains and distribution network pipelines in the project area has been carefully planned to minimize disturbance to pedestrians and traffic and avoid income loss to businesses. Measures will be taken to minimize excavation, disturbance to pedestrians and traffic and avoid income loss to businesses through provision of planks for access, while minimizing road reconstruction costs. Temporary impacts to traffic/access to shops and residences due to digging of pits for trenchless pipe laying are possible during construction; however, these will be mitigated by ensuring access to properties through provision of pedestrian planks, provision of adequate signage, and careful traffic management. Mobile hawkers will be assisted to move to places nearby, to ensure their earnings are not affected. The proposed distribution network will pass through a *mandi* (weekly vegetable/fruit market) in old Sagar. The weekly market day will be avoided for construction. Only mobile vendors will be shifted to nearby locations during the period

of construction and assistance to shift from and back to their original location will be provided by the contractor, as required. No income loss is anticipated.

33. Potential disruption of water supply to existing consumers is possible during construction, and will be mitigated through supply by water tankers.

34. House service connections with domestic water meters are proposed. The town has a total of 60173 households; 100% households are proposed to be connected.





Table 4: Proposed sub-project components in Sagar Augmentation Water Supply Subproject and their Involuntary Resettlement Impact status

	Components	Capacity	Unit (No.)	Length	Land ownership	IR Impact	IP Impact
Water Supply							
1	Water Treatment plant for surface water	5.4 mld	1		Government land in possession of ULB	Near existing WTP, vacant land belonging to ULB identified for water treatment plant (WTP). The required land is 1.2 hectares; adequate land is available. Appendix -4. The land has been in possession of Sagar Municipal Corporation since year 1998. There are no pending issues related to land acquisition as all compensation was paid in or before 1998.	None
2	Break Pressure Tank	375 KL	1		Government land	New BP Tank is proposed on government land at Dugdugi hill. Land without any settlement/ squatter /cultivation or other use. For land records / khasra details-407 and khasra map, refer Appendix -4..	None
3	Over Head Tank (OHT)	900 KL and 2400 KL	2		Government land	Two OHTs are proposed to be constructed. The sites selected are at Shanichari ward and Pant Nagar. Both sites are vacant government land. For land records / khasra details and khasra map refer Appendix -4..	None
4	Ground Level Service reservoir (GLSR)	3700 KL	1		Government land	Ground level service reservoir is proposed near Jhiriya Mata Temple. The land is in possession of Revenue Department. For land records / khasra details and khasra map, refer Appendix -4..	None
5	Guard cum operator house at WTP and boundary wall with gate		9		Government land	A guard cum operator house and a boundary wall with gate are proposed at water treatment plant complex (vacant land). Details of land availability and ownership are given above. Boundary walls are also proposed at the 8 OHTs sites, 6 existing and another 2 proposed, as well as for proposed GLSR.	None
6	Transmission			Existing 1090	Government	Existing raw water and clear water	None

	Components	Capacity	Unit (No.)	Length	Land ownership	IR Impact	IP Impact
	main			meters of raw water rising main and existing 8100 meters of clear water rising main. New clear water gravity mains from Junction 9 to Sanichari ESR (1.837 km)	land	rising mains are proposed for repair and maintenance. The existing transmission main passes through unused/vacant/barren public lands / road RoW of State Highway 11 and municipal roads. The proposed new CWGM passes through municipal road RoW.	
7	Chemical Storage and dosing pump house		1		Government land	Proposed within the water treatment plant complex. Vacant land under ULB's possession.	None
8	<u>Distribution Pipeline</u> HDPE pipe - 255.163 kms			255.163 kms	Road RoW (public land)	Pipelines pass through existing road RoWs (government roads). Temporary impacts on traffic/access to shops and residences anticipated in some places, will be avoided/mitigated. Contractor to provide signages indicating available alternate access route to minimize traffic disruptions. Contractor will have to ensure access to shops and residences as per EMP provisions, and will have to avoid construction on weekly <i>haat</i> / market day.	No additional impacts on IPs other than temporary access disruptions identified as IR impacts for all people in coverage area.
9	Household connections with domestic metres		60173		-	During construction period, access to residences and shops likely to be temporarily affected. Contractor will have to ensure access as per EMP provisions.	No additional impacts on IPs other than temporary access disruptions identified as IR impacts for all people in coverage area

B. Indigenous Peoples

35. As per Census of India 2011, the total population of scheduled caste (54432) and scheduled tribes (3052) accounted for 19.83% and 1.11% of the total town population of Sagar (274554), respectively. Together, SC and ST accounted for 20.94 % (57484) of the total population of Sagar.

Table 5. Population of Scheduled Caste and Scheduled Tribes in Sagar

S. No.	Details	Population	Percent to total
1	SC Population	54432	19.83
2	ST Population	3052	1.11
3	SC& ST Population	57484	20.94
	Total Population	274554	

Source: Census of India, 2011

36. Ward wise details of IP population in Sagar as per Census 2011 is given in **Appendix 1**. In Sagar Municipal Corporation, IP population scattered in all 48 wards, who will be directly benefitted by the project as project is expected to cover all households in the town. To increase participation and inclusion of IP and vulnerable persons in project benefits, regular consultation, engagement and information disclosure are proposed.

37. None of the selected sites or alignments for the proposed water supply subproject in Sagar are anticipated to have negative impacts to scheduled tribe or scheduled caste population. All households, including scheduled tribe and scheduled caste population, as well as other vulnerable households are anticipated to benefit from the proposed water supply subproject under MPUSIP through the proposed policy of 100% household connectivity adopted for the Project. The contract will have specific provisions to (a) ensure connectivity to scheduled tribe and other vulnerable households, and (b) accord priority to scheduled tribe and vulnerable persons, if available and willing to work, and if positions are available, for project-related construction work as well as operation and maintenance work, by the contractor. The contractor will maintain records of such employment, which will be monitored by the PMU. A grant from ADB will ensure priority to scheduled tribe and other vulnerable persons in proposed capacity building and skill training activities for improved livelihoods and socio-economic conditions. All activities and beneficial measures proposed for ST and other vulnerable persons will be monitored and reported in the Semi-Annual Monitoring Report, to be submitted to ADB.

V. CONCLUSIONS

A. Summary and Conclusions

38. No significant IR impacts are assessed at identified sites for sub-project components, as adequate vacant land is available for the proposed facilities, within the compounds of government lands. The site for new WTP is owned by Sagar Municipal Corporation. The sites for two OHTs (Shanichari ward and Pant Nagar) and GLSR near Jhiriya Mata Temple is proposed on Revenue Department land, NOC for these is in process. For linear components (pipe laying) or those proposed along government road ROWs, temporary disruption to road users, pedestrians and community members will be avoided. The subproject is classified as Category C for IR impacts and Category B for IP impacts (due to anticipated beneficial impacts to the small ST population in the town). Simple safety measures such as provision of planks for pedestrian access to shops and businesses, and proper traffic management shall be ensured by the contractor. A budgetary provision is made for costs likely to be incurred for updating and implementation of this due diligence report. Costs related to training and capacity building of willing ST/other vulnerable households will be covered under an ADB grant for capacity building, while those related to house

connections and project related construction and O&M jobs are part of the contract, hence not considered in the above-mentioned DDR updation and implementation costs.

Table:5: Budget

S.no	Description	Target group	Estimated cost	Source of fund
1	Consultation	Beneficiaries and affected persons, if any in project area	INR 100000;	Included in subproject cost
2	Communication, awareness generation and grievance redress	Same as above	INR 1500000	Included in subproject cost
3	Tanker supply for areas where existing water supply disrupted during construction	Affected areas	INR 500000	Included in subproject cost
4	10% contingencies	Affected persons of project area	INR 210000	Included in subproject cost
	Total		INR 2310000	

B. Next Steps

39. The DDR needs to be updated with the following information:

- NOCs from Revenue Department for proposed reservoir sites at Jhiriya Mata Temple, Shanichari Ward and Pant Nagar; to be included in final DDR
- Properly labeled photographs of all existing/new project sites and alignments in sites / sections ready for construction (**Appendix-4**)
- In addition to the above, in order to improve the quality of consultations, local community organizers will be appointed for Project under package; record of consultations held with local communities and other stakeholders to be included in updated/final DDR.

40. The due diligence report will be updated on finalization of detailed design by PMU, initiation/completion of due procedures reported, and ADB approval obtained prior to start of construction. Monitoring of the DDR will be reported in the Semi Annual Monitoring Reports to ADB.

PHOTOGRAPHS

Location of water extraction and arrangements on Rajghat dam on Bebus river

Existing Intake well at Rajghat



Existing WTP near Rajghat Dam



Site for Proposed BPT of 3.75 Lac liter for Clear Water on Dugdugi Hill



Site for Proposed ESR at Pant Nagar Sweeper's Colony



Site for Proposed ESR at Sanichari, behind Sagar Municipal Corporation Health Centre



Site for Proposed GLSR near Jhiriya Mata temple and University



GOOGLE EARTH MAPS

Figure 1: Location of Existing WTP on Google Earth map



Figure 2: Location of Proposed WTP Site adjacent to Existing WTP Site



Figure 3: Location of proposed and existing WTP, BPT and Intake on Google Earth map



Figure 4: Location of Intake on Google Earth map



Figure 5: Locations of proposed and existing components of Sagar Water Supply on Google map



Figure 6: Location of existing OHTs



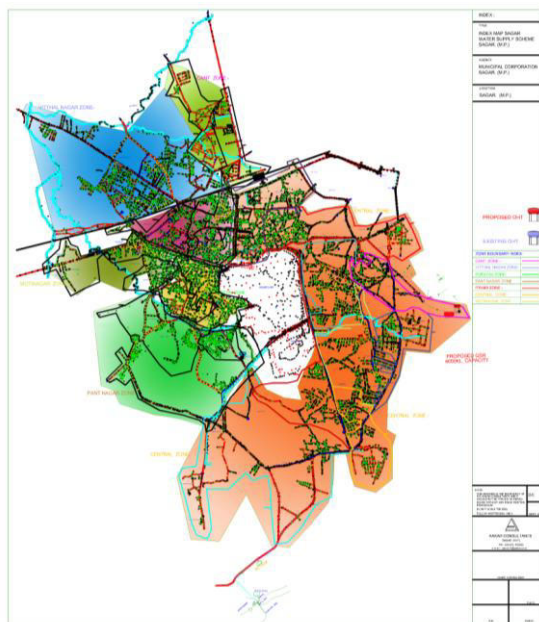
Figure 7: Proposed Clear Water Feeder Main Alignment and OHT Locations



Figure 8: Location of proposed GLSR



Figure 9: Proposed Distribution Network for Sagar Water Supply







APPENDIX 1: Ward-wise Population of Indigenous People in Sagar town

Ward name/No.	Total Population	Total pop. Male	Total Pop. Female	Total Pop. Sc	Total Pop. ST
1	4624	2383	2241	557	163
2	2818	1454	1364	146	40
3	3636	1856	1780	449	136
4	8694	5083	3611	890	466
5	9400	4842	4558	584	281
6	7179	3680	3499	688	61
7	7154	3726	3428	517	167
8	4015	2045	1970	196	06
9	4053	2105	1948	32	13
10	3597	1884	1713	25	07
11	4335	2237	2098	846	08
12	5387	2794	2593	265	11
13	3823	1954	1869	58	20
14	7570	3909	8661	909	56
15	5615	2949	2666	3173	117
16	6228	3279	2949	3423	5
17	7328	3757	3571	3138	14
18	7056	3738	3318	3026	60
19	6203	3250	2953	2196	60
20	9065	4706	4359	1696	35
21	4881	2560	2321	230	3
22	4733	6477	5853	4903	56
23	4299	2251	2048	2008	17
24	4186	2163	2023	2719	29
25	7365	3873	349	74	32
26	3868	2017	1520	704	20
27	4485	1747	2187	258	1
28	8319	4312	4007	29	0
29	6902	3624	3278	70	4
30	8253	4297	3956	46	1
31	4523	2395	2128	57	4
32	3931	2033	1898	704	12
33	3079	1620	1459	132	19

34	3912	2007	1905	77	4
35	4651	2424	2227	2449	10
36	3525	1835	1690	702	12
37	4485	2467	2266	1689	30
38	8415	4436	3979	526	2
39	3374	1697	1677	2728	59
40	2724	1406	1318	354	0
41	5017	2576	2441	46	4
42	4200	2220	1980	388	5
43	6142	3120	3022	273	0
44	6905	3626	3279	2752	3
45	7998	4195	3803	2599	74
46	7687	4018	3669	1007	234
47	6545	3441	3104	829	239
48	1260	659	601	3148	434
Total	274556	143425	131131	54432	3052

Source: Census of India, 2011

Appendix -2. Details of Land Ownership for Sites where New Subproject Components Proposed

Component	Location	Ownership of Land proposed	Plot No. (Khasra No) Land Available (Ha.)	Land available/ Required (Sqm/Ha.)	Availability of land Record	Status of NOC	Sites
Water treatment plant	near existing WTP	Owned by Government of Madhya Pradesh				Land in possession of ULB (Sagar Municipal Corporation)	
BP Tank		Owned by Government of Madhya Pradesh	407	7.65 ha. available land	Yes	NOC to be obtained from Revenue Department	
Ground Level Service Reservoir	at Central service area, near Jhiriya Mata Temple	Owned by Government of Madhya Pradesh	380/22,380/23 , 380/24/3.85 Ha		Yes	NOC to be obtained from Revenue Department	
OHT-1	Shanichari ward	Owned by Government of Madhya Pradesh	154/1	47.56 ha available land	Yes	NOC to be obtained from Revenue Department	
OHT -2	Pant Nagar (Moti Nagar)	Owned by Government of Madhya Pradesh	143/1,144,145,146/1,146/2 /1.131Ha	0.5 ha	Yes	NOC to be obtained from Revenue Department	

Appendix 3. Details of Stakeholder Consultation, Photographs and List of Participants

Date	Location	No. of Participants	Participants	Topics Discussed	Issues Raised
10 th Dec. 2015	Parishad hall of Municipal Corporation	Total=25 M=21, F=4	Elected representatives, Commissioner, Engineers, Revenue Inspector	<ul style="list-style-type: none"> Existing status of drinking water supply, need for project and demand from the community; Existing drinking water supply quality by District Water Supply and Sanitation Sub-division Office; Upfront cash collection; Area covered by the project; Status of existing drinking water supply system; Need for improvements to present system; Potential positive and negative impacts project implementation; Local community's response to the project. 	<ul style="list-style-type: none"> Willingness to connect to piped drinking water supply; Subsidy to the poor; whether community taps would be provided; Community participation in project implementation; Implementing agency; and better /improved service. The Municipal Corporation does not have capacity or resource to be party in sharing the burden of loan repayment.
10th Dec. 2015	Intake, treatment plant and reservoir tank locations	Total=20 M-12, F-8	Community members	<ul style="list-style-type: none"> All the locations of different component structures proposed for water supply system and are inspected. The status of land ownership is verified. Consulted on the different issues with community 	<ul style="list-style-type: none"> All the proposed component structures are found to be located within the domain of public/government land. No private land acquisition is required for the proposed system. Community indicated support for project and showed willingness to pay enhanced user charges for improved water supply (frequency and quantity).
12th Dec. 2015	Localities along the proposed transmission and distribution network alignments	Total=25 M-20,F-5	local politicians, beneficiaries local businesses/ small restaurant owners/ street vendors	<ul style="list-style-type: none"> Inspection of entire alignment to assess impacts and whether any need for business surveys; Discussion on project's safeguards policies and potential issues 	<ul style="list-style-type: none"> How the temporary disruption to businesses could be avoided; avoid construction works on market days. Temporary shifting of mobile street vendors and weekly markets may be proposed to open area.
13th Dec. 2015	Wards having dilapidated lines	total=20 M-10 F-10	MALE : Employees in government/privat	<p>Relevant information on the proposed project.</p> <ul style="list-style-type: none"> Benefits of the project. 	<ul style="list-style-type: none"> Commencement date of project work and duration. Water logging during heavy monsoon.

			e sector, businessmen, retired persons FEMALE: Housewives	<ul style="list-style-type: none"> • Hassle-free work procedure without disrupting daily activities and transportation system. • No chance of structure or income loss. • Grievance redressal procedures. • Public participation and awareness. 	<ul style="list-style-type: none"> • Chances of damaging the existing water pipelines during project implementation. • Lack of public awareness in proper use of underground drainage system. • Scarcity of drinking water in the area. • Public sensitization on proper use of underground sewerage system
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Consultation with Scheduled Tribe population, Sagar

Date	Location	Participants (No.)	Stakeholder	Topics Discussed	Issues Raised
20/1/16	2 Wards (ward no. 4 and ward no. 48) having higher concentration of IP population.	Total=50 M=32, F=18	Scheduled tribe and vulnerable sections (poor women and men)	<ul style="list-style-type: none"> • Status of existing drinking water supply system and need for improvements • Features of the upcoming project and benefits of the project • Potential positive and negative impacts due to project implementation • Response of the community towards the project 	<ul style="list-style-type: none"> • The area has insufficient and inadequate drinking water resource. • Water supply to the area is done through a tube well that supplies water to the community through stand posts. • The area faces severe water crisis during the summer when the ground water level drops. • The community willingly accepts the project. • The community members expressed that their economic situation would prevent them from paying water user charges.

Stakeholder Consultation

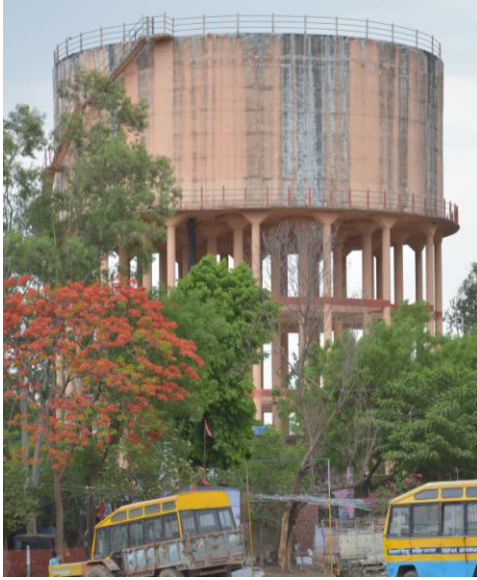




Stakeholder Consultation (street vendors)



Site Inspection



List of Participants at consultations

Sr. No.	Name of the Participant	Representing Area
1	Ayodhya Prasad Jatav	Sanjay Nagar Kachhi Basti
2	Monu	Sanjay Nagar Kachhi Basti
3	Bikesh Vishwakarma	Sanjay Nagar Kachhi Basti
4	Rohit	Sanjay Nagar Kachhi Basti
5	Mahesh	Sanjay Nagar Kachhi Basti
6	Sitaram Ahirwar	Sanjay Nagar Kachhi Basti
7	Mahindra Ahirwar	Sanjay Nagar Kachhi Basti
8	Vindravan	Sanjay Nagar Kachhi Basti
9	Santosh	Sanjay Nagar Kachhi Basti
10	Vinod	Sanjay Nagar Kachhi Basti
11	Roopkishor	Sanjay Nagar Kachhi Basti
12	Hemraj	Sanjay Nagar Kachhi Basti
13	Moti Lal	Sanjay Nagar Kachhi Basti
14	Jagdish Jatav	Sanjay Nagar Kachhi Basti
15	Neelesh Jatav	Sanjay Nagar Kachhi Basti
16	Veer Singh Jatav	Sanjay Nagar Kachhi Basti
17	Mohan Lal Ahirwar	Sanjay Nagar Kachhi Basti
18	Krishna	Sanjay Nagar Kachhi Basti
19	Poona	Sanjay Nagar Kachhi Basti
20	Lakshmi Bai	Sanjay Nagar Kachhi Basti
21	Munee	Sanjay Nagar Kachhi Basti
22	Deeprani	Sanjay Nagar Kachhi Basti
23	Neeta bai	Sanjay Nagar Kachhi Basti
24	KushamBai	Sanjay Nagar Kachhi Basti
25	Mamta	Sanjay Nagar Kachhi Basti
26	Anita	Sanjay Nagar Kachhi Basti
27	Sushma	Sanjay Nagar Kachhi Basti
28	Koshelya	Sanjay Nagar Kachhi Basti
29	Shila Bai	Sanjay Nagar Kachhi Basti
30	Mula Bai	Sanjay Nagar Kachhi Basti
31	Hemlata	Sanjay Nagar Kachhi Basti
32	Shela Bai	Sanjay Nagar Kachhi Basti
33	Sheel	Sanjay Nagar Kachhi Basti
34	Parvati	Sanjay Nagar Kachhi Basti
35	Meena	Sanjay Nagar Kachhi Basti

Sr. No.	Name of the Participant	Representing Area
36	Kamla Bai	Sanjay Nagar Kachhi Basti
37	Ramkali	Sanjay Nagar Kachhi Basti
38	Jayoti	Sanjay Nagar Kachhi Basti
39	Rekha	Sanjay Nagar Kachhi Basti
40	Devkee	Sanjay Nagar Kachhi Basti
41	Durgesh Athiya	Sanjay Nagar Kachhi Basti
42	Rajesh	Sanjay Nagar Kachhi Basti
43	Pramood	Sanjay Nagar Kachhi Basti
44	Hariram	Sanjay Nagar Kachhi Basti
45	Devi Prashad	Kishor nayalay Kachhi Basti
46	Mahindra singh	Kishor nayalay Kachhi Basti
47	Uddet Ahirwar	Kishor nayalay Kachhi Basti
48	Suneel	Kishor nayalay Kachhi Basti
49	Shovaram Patel	Kishor nayalay Kachhi Basti
50	Santosh Kori	Kishor nayalay Kachhi Basti
51	damre kori	Kishor nayalay Kachhi Basti
52	Seelchand Kori	Kishor nayalay Kachhi Basti
53	Punam Kori	Kishor nayalay Kachhi Basti
54	Shankar	Kishor nayalay Kachhi Basti
55	Tikaram Ahirwar	Kishor nayalay Kachhi Basti
56	Hira Lal	Kishor nayalay Kachhi Basti
57	Ratan Patel	Kishor nayalay Kachhi Basti
58	Dayashankar	Kishor nayalay Kachhi Basti
59	Bharat sen	Kishor nayalay Kachhi Basti
60	Devkinandan Dubay	Kishor nayalay Kachhi Basti
61	Nayaran	Kishor nayalay Kachhi Basti
62	Devi Ahirwar	Kishor nayalay Kachhi Basti
63	Lalita	Kishor nayalay Kachhi Basti
64	munee Bai	Kishor nayalay Kachhi Basti
65	Santosh Rani	Kishor nayalay Kachhi Basti
66	Hari Bai	Kishor nayalay Kachhi Basti
67	Jayanti Bai	Kishor nayalay Kachhi Basti
68	Halli Bai	Kishor nayalay Kachhi Basti
69	Ashok Rani	Kishor nayalay Kachhi Basti
70	Nanad Rani	Kishor nayalay Kachhi Basti
71	Shiya Rani	Kishor nayalay Kachhi Basti
72	Asha Rani	Kishor nayalay Kachhi Basti
73	Jashoda Bai	Kishor nayalay Kachhi Basti
74	Sheel Rani	Kishor nayalay Kachhi Basti

75	Latkari Bai	Kishor nayalay Kachhi Basti
Sr. No.	Name of the Participant	Representing Area
76	Radha Rani	Kishor nayalay Kachhi Basti
77	Gomti Bai	Kishor nayalay Kachhi Basti
78	Sangeeta Sahu	Kishor nayalay Kachhi Basti
79	Archna Jatav	Kishor nayalay Kachhi Basti
80	Mamta	Kishor nayalay Kachhi Basti
81	Nisha	Kishor nayalay Kachhi Basti
82	Shayam Bai	Kishor nayalay Kachhi Basti
83	Soniya	Kishor nayalay Kachhi Basti
84	Suhani	Kishor nayalay Kachhi Basti
85	Janki	Kishor nayalay Kachhi Basti
86	Shitare	Kishor nayalay Kachhi Basti
87	Chandrashekhar Rajak	Kishor nayalay Kachhi Basti
88	Ramakaran Patel	Kishor nayalay Kachhi Basti
89	Ashok	Kishor nayalay Kachhi Basti
90	Lakshman	Kishor nayalay Kachhi Basti
91	Rajkumar	Kishor nayalay Kachhi Basti
92	Chandan	Kishor nayalay Kachhi Basti
93	Omkar	Kishor nayalay Kachhi Basti
94	Raj	Kishor nayalay Kachhi Basti
95	Sashi Rohit	Bidi Colony Kachhi Basti
96	Neelam Namdev	Bidi Colony Kachhi Basti
97	Nisha Namdev	Bidi Colony Kachhi Basti
98	Maya Namdev	Bidi Colony Kachhi Basti
99	Aawaj	Bidi Colony Kachhi Basti
100	Najween	Bidi Colony Kachhi Basti
101	Bandna Parasar	Bidi Colony Kachhi Basti
102	Gafur Ali	Bidi Colony Kachhi Basti
103	Gita Parashar	Bidi Colony Kachhi Basti
104	Sunil Namdev	Bidi Colony Kachhi Basti
105	Amir Khan	Bidi Colony Kachhi Basti
106	Ikrar khan	Bidi Colony Kachhi Basti
107	Safik khan	Bidi Colony Kachhi Basti
108	Asif khan	Bidi Colony Kachhi Basti
109	Ayan	Bidi Colony Kachhi Basti
110	Krishna kumar	Bidi Colony Kachhi Basti
111	Arbaj khan	Bidi Colony Kachhi Basti
112	muhmad Rafik	Bidi Colony Kachhi Basti
113	Halle dada	Bidi Colony Kachhi Basti
114	Ashok patel	Bidi Colony Kachhi Basti

Sr. No.	Name of the Participant	Representing Area
115	Garibdas	Bidi Colony Kachhi Basti
116	Kailash	Bidi Colony Kachhi Basti
117	Ramsingh	Bidi Colony Kachhi Basti
118	Mohan	Bidi Colony Kachhi Basti
119	Pappu	Bidi Colony Kachhi Basti
120	Naresh	Bidi Colony Kachhi Basti

Appendix-4. LAND RECORDS

Khasra Details and Maps

Khatoni Record for BP Tank Location

क्रमांक	क्षेत्रफल (और यदि भूमि खतों में सम्मिलित न हो, तो उसका वर्णन)	कच्चेदार का नाम, उसके पिता का या पति का नाम समा निवास स्थान, अधिकार जिसके अन्तर्गत भूमि धारण की गई हो और दिये राखने का लगान	किसी भूमि-स्वामी या पट्टेदार का या किसी सौकरजी कालकर के उप-पट्टेदार का नाम, पिता का नाम, लगान या पट्टे की रकम और उप- पट्टे पर दिये गये भाग का क्षेत्रफल	खाते की भूमि						खाते के बाहर के क्षेत्र में कोई भी फसल का नाम तथा क्षेत्रफल	किफ
				क्षेत्र जिसमें वर्ष के दौरान में फसल उगाई गई		पट्टी का क्षेत्रफल					
				फसल का नाम	क्षेत्रफल	दुकमाली क्षेत्रफल	चालू वर्ष की पट्टी	2 से 5 वर्ष तक की पट्टी	अन्य पट्टी अर्थात् 5 वर्ष से अधिक		
1	2	3	4	5	6	7	8	9	10	11	1
✓ K06	च. 42 3289 दोघासा	न-मुल		2093/98							
⊗ K07	236 2966 पानी	मिलिकमल सरकार जेठ मिहाराजी नगर निगम सागर		209/116 (Anand Khatoni) Pattwari Circle 65 Saugor (M.P.)							
⊗ K08	235 9326 दोघासा	न-मुल									सामाजिक विभाजक डाक्टर एम के.के.के.के. द्वारा सागर
890/	236 9326	अमनावाई मेवा फूलचंद श्यामसुन्दर							0.408		सुभा-1

Note: *Khasra* is land record maintained by the state government, which depicts for each land parcel, the parcel number, ownership, area and land use. The *Khasra* /land record is usually accompanied by a scaled map.

The above records depict that the proposed BP tank site is owned by government and has an area of 2.36 hectares and Khasra no. 407.

Khasra details of Proposed OHT at Pant Nagar

ग्राम १४० महिषा कम्बला		हल्का ०६६ करीला	रा. नि. नं सागर-१	तहसील सागर.	जिला सागर	वर्ष २०१५-२०१६.					
क्रमांक	क्षेत्रफल (और यदि भूमि खाते में सम्मिलित न हो तो उसका वर्णन)	कब्जेदार का नाम, उसके पिता का या पति का नाम तथा निवास स्थान, अधिकार लिस्ते अन्तर्गत भूमि धारण की गई हो और देश राजस्व का लगान	किसी भूमिस्वामी या पट्टेदार का या किसी मोरूमो कालतकार के उप पट्टेदार का नाम, पिता का नाम, लगान या पट्टे की रकम और उस पट्टे पर दिये गये भाग का क्षेत्रफल	खाते की भूमि						खाते के बाहर के क्षेत्रों में बाँटी गई फसल का नाम तथा क्षेत्रफल	कीफायत
				क्षेत्रफल जिसमें वर्ष के दौरान में फसल उगाई गई	पट्टेदार का क्षेत्रफल	फसल का नाम	क्षेत्रफल	दुफसली क्षेत्रफल	पालू वर्ष की पट्टे		
१	२	३	४	५	६	७	८	९	१०	११	१२
खसरा क्र. १४३/१-निर्लेख		भूमि स्वामी भू-राजस्व ०.०२									
१४४	०.०१३ रास्ता ०.०१३	शासकीय									
१४५	०.०४० रास्ता ०.०४०	शासकीय									
१४६/१	०.०४० भू-जल ०.०४०	शासकीय									
१४६/२	०.१२९	शासकीय									


 Jaiswar Pant
 Khasra No. 143-146/1
 U. P. Circle-015118
 Dist. Saugor (M.P.)

Note:

The above records depict that the proposed Over Head Tank site is owned by government and has an area of 1.85 hectares and Khasra no. 143-146/1.

Khasra details of Proposed OHT at Shanichari area

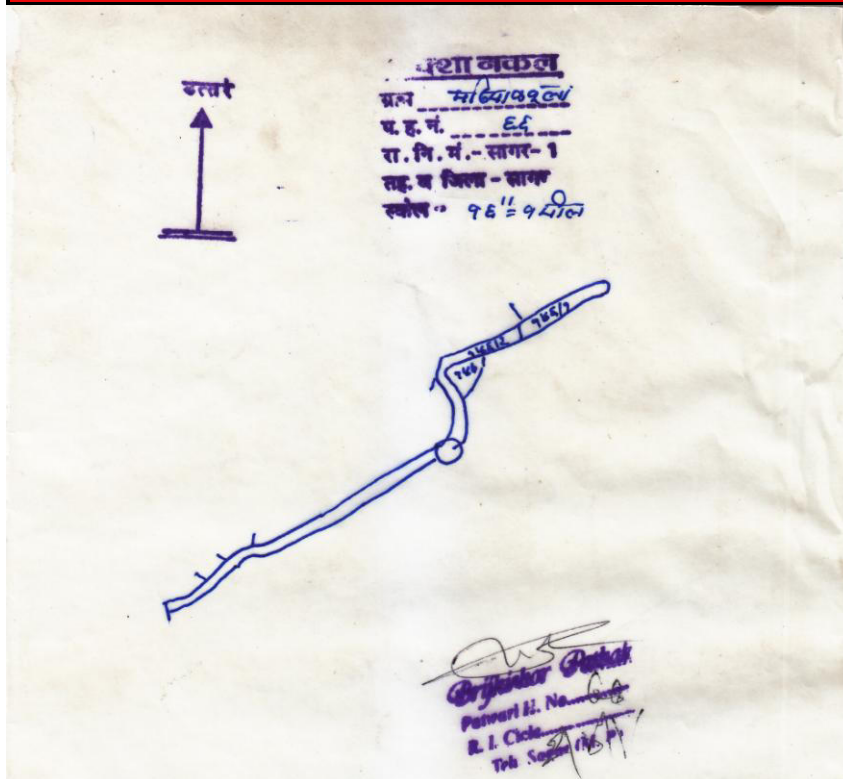
पृष्ठ क्र : १		फार्म पॉ-II		तिथि : ३०-०४-२०१६ ११:३३					
भूमि का ब्योरा इन्फोर्मर में देव करो का ब्योरा रुपये पैसों में		खसरा							
ग्राम १३३ तिलीभाफा		हल्का ०६३ तिली भाफा		रा. नि. नं सागर-१					
		तहसील सागर.		जिला सागर					
क्रमांक	क्षेत्रफल (और यदि भूमि खान में सम्मिलित न हो तो उसका वर्णन)	कब्जेदार का नाम, उसके पिता का या पति का नाम तथा निवास स्थान, अधिकार जिसके अन्तर्गत भूमि धारण की गई हो और देय राजस्व का लगान	फिसा भूमिस्वामी या पट्टेदार का या किसी मौजूमी काश्तकार के उप पट्टेदार का नाम, पिता का नाम, लगान या पट्टे की रकम और उस पट्टे पर दिये गये भाग का क्षेत्रफल	खाने की भूमि					
				क्षेत्रफल जिसमें वर्ष के दौरान में फसल उगाई गई			पट्टी का क्षेत्रफल		
४	१	३	४	फसल का नाम	क्षेत्रफल	दुफसली क्षेत्रफल	चालू वर्ष की पट्टी	२ से ५ वर्ष तक की पट्टी	अन्य पट्टी ५ वर्ष
२३९	३.५४९ स.७२८ ३.५४९	शासकीय							
प्रमाणित देने वाले के									

Note: The above records depict that the proposed Over Head Tank site is owned by government and has an area of 3.54 hectares and Khasra no. 239.

Khasra details of Proposed GLSR

380/28		380/12			
334					
380/9	380/18	380/23	जंगल	135.32	विनायकनरान हाई स्कूल की "इमारत" तथा बैंगल के भेद के लिये
380/9	380/18	380/23	उत्पत्ति		
0.03	रवाता				
0.093					
380/18	जंगल रवाता				
135.32					

शेखपुरा-213-कमरा-22-8-2008-1.500 मी.



Note: The above records depict that the proposed GLSR site is owned by government and has an area of 3.85 Ha and Khasra no.s 380/22,380/23, 380/24/3.85.