

Land Acquisition and Involuntary Resettlement Due Diligence Report

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IND: Rajasthan Secondary Towns Development
Sector Project – Makrana Wastewater Works

Prepared by Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Limited-
Externally Aided Projects for the Asian Development Bank.

CURRENCY EQUIVALENTS

(as of 19 May 2020)

Currency unit	–	Indian rupee (₹)
₹1.00	=	\$0.0132
\$1.00	=	₹75.634

ABBREVIATIONS

ADB	–	Asian Development Bank
CAPP	–	Community Awareness and Public Participation Consultant
CLC	–	City Level Committee
CWR	–	clear water reservoir
CRO	–	Complaint Receiving Officer
DBO	–	design, build and operate
DDR	–	due diligence report
DPR	–	detailed project report
EMP	–	environmental management plan
ESR	–	elevated service reservoir
FGD	–	focus group discussions
GOI	–	Government of India
GOR	–	Government of Rajasthan
GRM	–	grievance redress mechanism
IEE	–	initial environmental examination
LSGD	–	Local Self Government Department
NGO	–	non-governmental Organization
O&M	–	operation and maintenance
OBC	–	other backward castes
OHSR	–	Over Head Service Reservoir
PIU	–	Project Implementation Unit
PMU	–	Project Management Unit
ROW	–	right-of-way
RSTDSP	–	Rajasthan Secondary Towns Development Sector Project
RUIDP	–	Rajasthan Urban Infrastructure Development Project
SIP	–	service improvement plan
SPS	–	Safeguard Policy Statement, 2009
STP	–	sewage treatment plant
SPS	–	sewage pumping station
ULB	–	Urban Local Body
WTP	–	water treatment plant

WEIGHTS AND MEASURES

kl	-	kiloliter
km	-	kilometer
l	-	liter
m	-	meter
MLD	-	million liters per day
mm	-	millimeter

m² - square meter

NOTES

In this report, "\$" refers to United States dollars.

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I. INTRODUCTION

A. Project Overview

1. The proposed Rajasthan Secondary Towns Development Sector Project (RSTDSP), is the fourth phase of investment projects financed by Asian Development Bank (ADB) and implemented by the Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Limited-Externally Aided Projects (RUDSICO-EAP), previously known as Rajasthan Urban Infrastructure Development Project (RUIDP). RSTDSP will support the ongoing efforts of the Government of Rajasthan (the government) towards improving the water and wastewater services in about 14 towns,¹ each with population between (50,000 and 100,000, in the state) or which are district headquarters (irrespective of population) or having heritage, cultural or other importance and irrespective of population. The project will invest in (i) the rehabilitation and expansion of water supply network through a district metering approach for management of nonrevenue water (NRW) and aiming for 24x7 water supply, (ii) the rehabilitation and expansion of sewerage network, (iii) modernization and new construction of water supply and waste water treatment plants, as required, (iv) construction of fecal sludge management treatment plant, and (v) decentralized waste water management systems in the project towns. The project also aims for wastewater reuse and a city-wide, inclusive sanitation approach to improve sanitation for all, including below poverty line households. The project is expected to increase operational efficiency, improve service delivery, and result in positive impact on health and quality of life for the residents of project towns in the state. Makrana, a town in Nagaur district of Rajasthan, is one of the project towns selected under RSTDSP for sewerage works.

B. Objectives and Scope of this Report

2. The proposed Makrana Wastewater Subproject will not involve any involuntary resettlement impacts. The primary objective of this land acquisition and involuntary resettlement due diligence report is to confirm that the subproject is free of involuntary resettlement impact such as private land acquisition, physical displacement, economic displacement, adverse impact on livelihood, community properties or any other impacts based on the site visits, land records and stakeholders consultations to the proposed subproject locations. This document describes the findings and provides copies of relevant documents, minutes of meetings and photographs.

3. This due diligence report covers the proposed subproject components that include (i) construction of one sewage treatment plant (STP) of 7.70 million liter per day (MLD) with sequencing batch reactors (SBR) technology in the existing campus of sewerage treatment plant and treated effluent elevated reservoir, treated effluent storage reservoir, effluent pumping station; (ii) two sewage pumping station (SPS), one near Jhalra Pond and second one near Sheetla Mata Sewa Samiti with capacity of 2.30 and 2.10 MLD; (iii) laying of 96.5 km sewer network including 12 km trenchless method in town; (iv) raising main for pumping the sewage (1,600 meters); (v) house service connection (8,900 units); (vi) electrical and mechanical works; (vii) one consumer relation management centers (CRMC) in the proposed SPS campus near Jhalra Pond; (viii) operation and maintenance of sewerage system (for 10 years); (ix) fecal sludge and septage management (FSSM) to provide low costs sanitation where sewer network is not an immediate requirement for population on outskirts and scattered habitations, until laying of sewer line.

¹ Project towns include Banswara, Abu Road, Sirohi, Pratapgarh, Khetri, Mandawa, Kuchaman, Ladnu, Didwana, Makrana, Laxmangarh, Fatehpur, Ratangarh, Sardarsahar.

4. Due diligence involved field visits and discussions with concerned local government offices for land records, land ownership details and permission and approvals required for the use of land. This was followed by a detailed public consultation to inform the public/stakeholders on the subproject components and to ascertain if there are any potential involuntary resettlement impacts. Site visits and consultations were conducted by the team comprising detailed project report (DPR) consultants, social safeguard consultant and staff from project management unit (PMU) and staff from the urban local body (ULB).

5. This draft land acquisition and involuntary resettlement due diligence report (DDR) has been prepared by integrating all the details of the draft DPR, findings of the field visits and discussions with relevant government officials and information gathered during public consultation which is aligned with ADB's safeguards requirements. The proposed works will not involve temporary or permanent private land acquisition and involuntary resettlement impacts.

II. DESCRIPTION OF SUBPROJECT AREA

6. Makrana is a town and a municipality in Nagaur district of Rajasthan state in India. Makrana is located at 27.05°N & 74.72°E and at average elevation 408 m (1339 ft) above MSL. The municipal area of the city is about 12.19 km². It is a *Tehsil* (sub-district) head quarter of Nagaur district. It is located at a distance of 100 kilometers from district head quarter Nagaur, 135 Km from the state capital Jaipur and 90 km from Ajmer by land. The nearest railway station is Makrana, which is within the city. The nearest Airport is Sanganer (Jaipur), which is about 137 km away from Makrana.

7. Makrana has a population of about 94,000. The total geographical area of Makrana municipality and outer growth is 36 km². The population density of the city is 2,625 persons per km². There are 41 wards in the city, among them, ward no. 36 is the most populated ward with 3,861 population while ward no. 09 is the least populated ward with a population of 1,160. The ward-wise population details are attached in Appendix 1.

Figure 1: Location of Makrana Town



III. SUBPROJECT DESCRIPTION

A. Present status of Sewerage System of the town

8. The existing sewage treatment plant of 6.0 million liters per day (MLD) capacity, SPS of 5.67 MLD and 70mm of sewer lines are operational, serving only partial coverage in Makrana town. Wastewater from kitchens and bathrooms is discharged into storm water drains and these lead into a *nallah* or natural drain or to vacant plots of land.

9. Due to the partial or no coverage for proper and safe disposal and treatment of sewage of several areas in Makrana town, the people particularly those outside the coverage area, live in an unhealthy and unhygienic environment. There is general public demand for sewerage systems in areas that are not yet covered and served. Upon execution of the proposed sewage collection and treatment system in certain areas, environmental health and hygiene conditions for the local community are expected to improve.

B. Proposed Subproject Component

10. Details of subproject component and location are shown in the Table below:

Table 1: Proposed Subproject Components

S. No	Components	Details
1	One Sewage Treatment Plant, Treated Effluent Elevated Reservoir, Treated Effluent Storage Reservoir, Effluent Pumping station	Construction of one STP of 7.70 MLD capacity with SBR technology, TEER, TESR will be constructed in the existing campus of STP near Borawar Road near railway line.
2	Two Sewage Pumping Stations	Two sewage pumping stations (SPS) are proposed near Jhalra Pond ² and near Sheetla Mata Sewa Samiti. The proposed capacity of SPS is 2.30 and 2.10 MLD is designed to meet the demand for 2036 projected population.
3	Sewerage Network	Laying of 96.5 km sewer lines in Makrana town of varying diameters, including pipe laying work of 12 km using trenchless technology.
4	House service connection	8,900 units
5	Raising Main - DIK9 pipe	1. Rising main for pumping the sewage from SPS-near Jhalra Pond to Node-75-Distance-800 meter 2. Rising main for pumping the sewage from SPS at Sheetla Mata Sewa Samiti to Node-3230-Distance- 800 meter
6.	One Community Relation Management Center	It will be constructed in the same land near Jhalra Pond where SPS is proposed to be constructed.
7.	Fecal sludge and Septage management (FSSM)	To provide low cost option of fecal sludge and septage disposal and treatment where sewer network is not an immediate requirement for population on outskirts and scattered habitation until laying of sewer line.

Source: Preliminary Detailed Project Report, 2019

Table 2: Proposed FSSM Coverage

Ward No.	Area		Projected Population	Density per hectare		Population proposed under FSM	% Coverage
	Total	Inhabited		Total	Inhabited		
	Ha.		2021	2021	2021	2021	2021
2	58.00	20.42	1980	34	97	198	10%
3	47.66	20.51	1616	34	79	242	15%
4	63.34	25.53	2882	45	113	432	15%
5	47.98	4.83	1836	38	380	367	20%
7	81.17	40.90	2418	30	59	484	20%
11	69.89	69.89	3403	49	49	170	5%
34	32.41	32.41	3864	119	119	77	2%
41	90.65	74.26	2625	29	35	105	4%
42	213.44	142.81	4927	23	35	2956	60%

² The location is adjoining Jhalra Pond (refer Google map attached for location adjoining Jhalra Pond). The IEE report of this subproject confirmed that the location is suitable and will not affect the water body (pond). The water accumulated in the pond is primarily wastewater of the town along with storm water from drains. The accumulated water (wastewater) is not used for any domestic purpose or otherwise, by any individual or community.

43	43.29	25.11	2235	52	89	2235	100%
44	123.02	70.35	2813	23	40	1688	60%
47	153.41	74.86	2811	18	38	1405	50%
Total	1024.26	601.88	33410			10359	31%

Source: Preliminary Detailed Project Report, 2019.

Figure 2: Layout Plan of Proposed Sewerage Works, Makrana

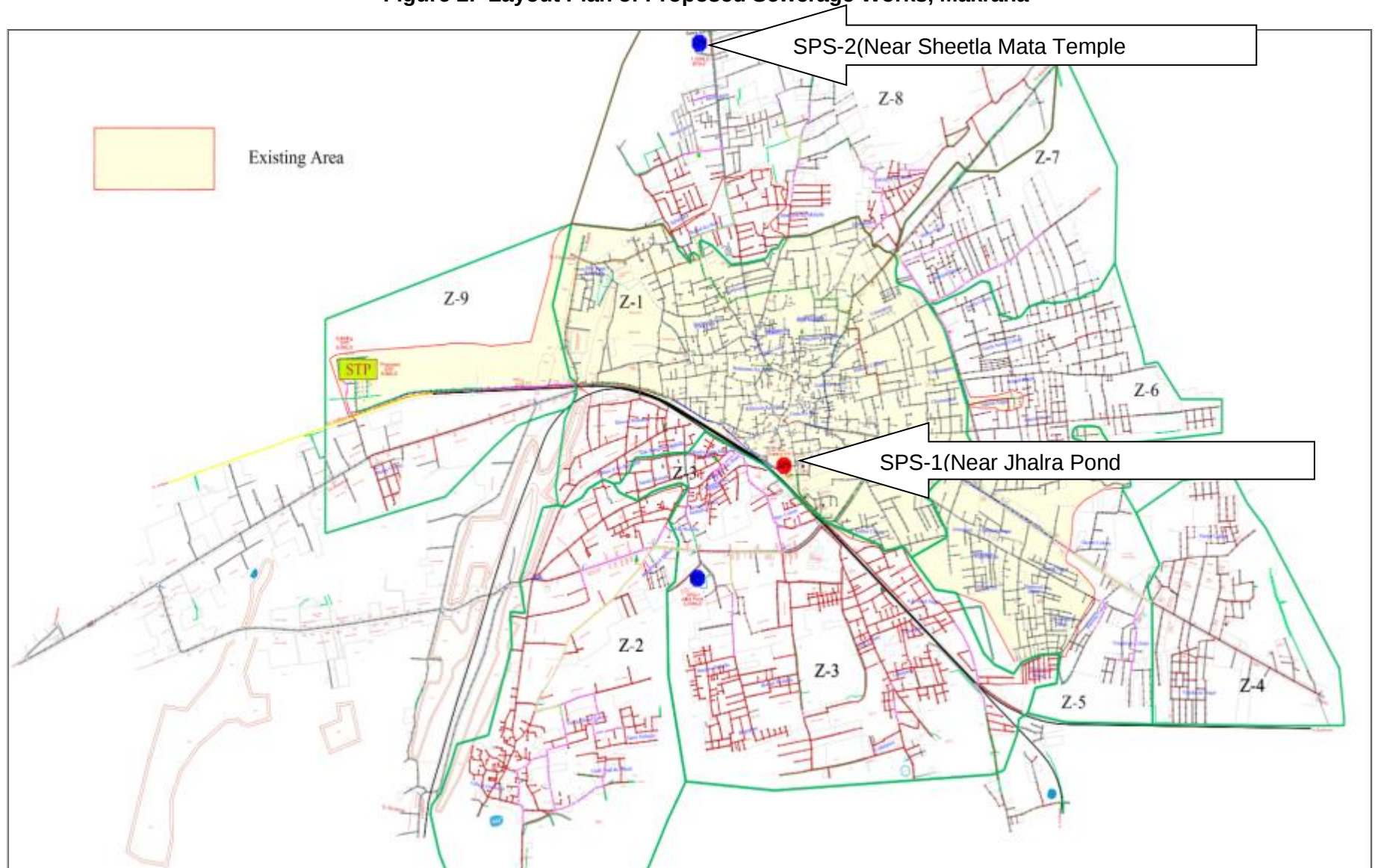


Figure 3: Layout of Sewage Treatment Plant near Borawar Road



Figure 4: Layout Plan of Sewage Pumping Station near Jhalra Pond

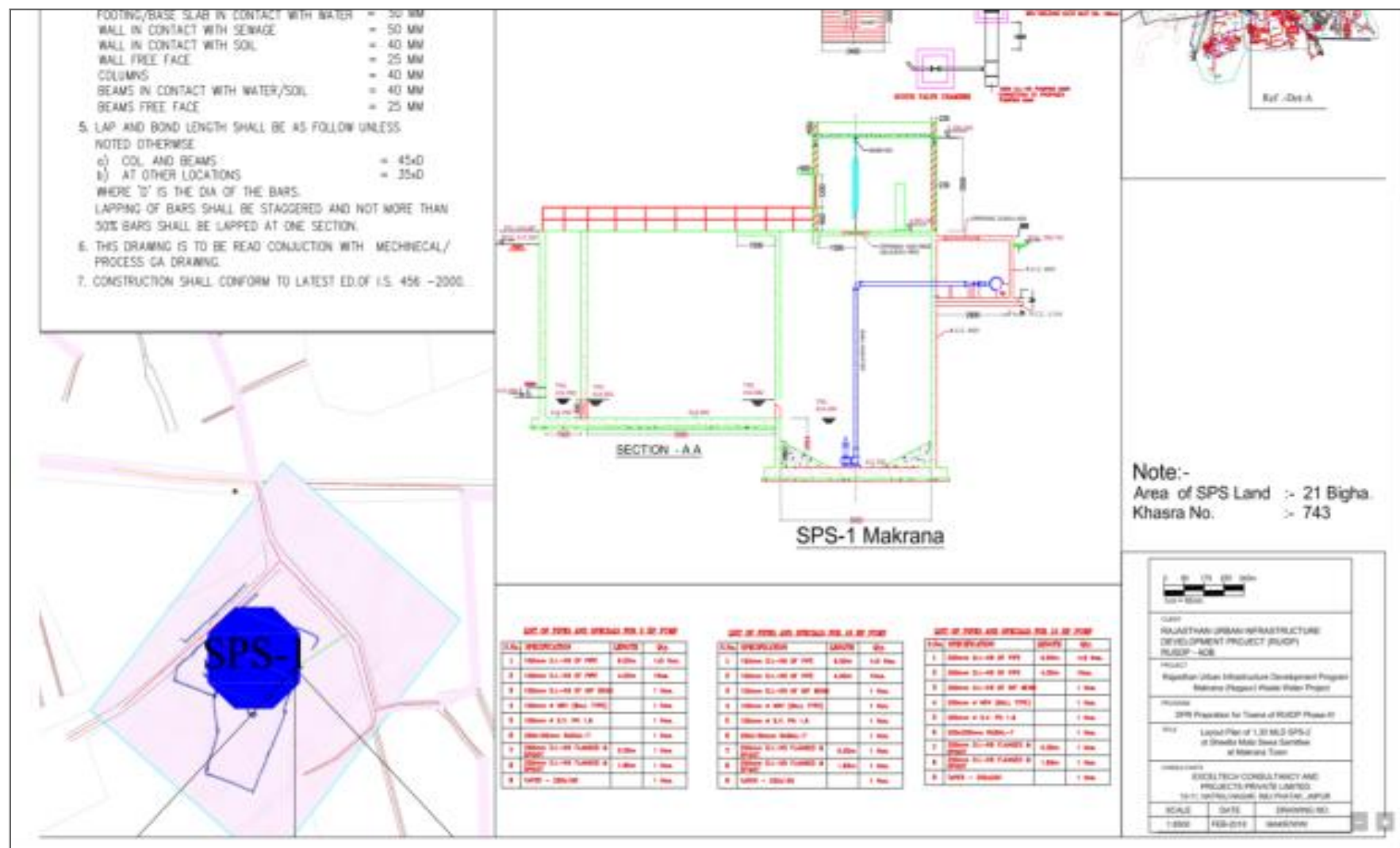
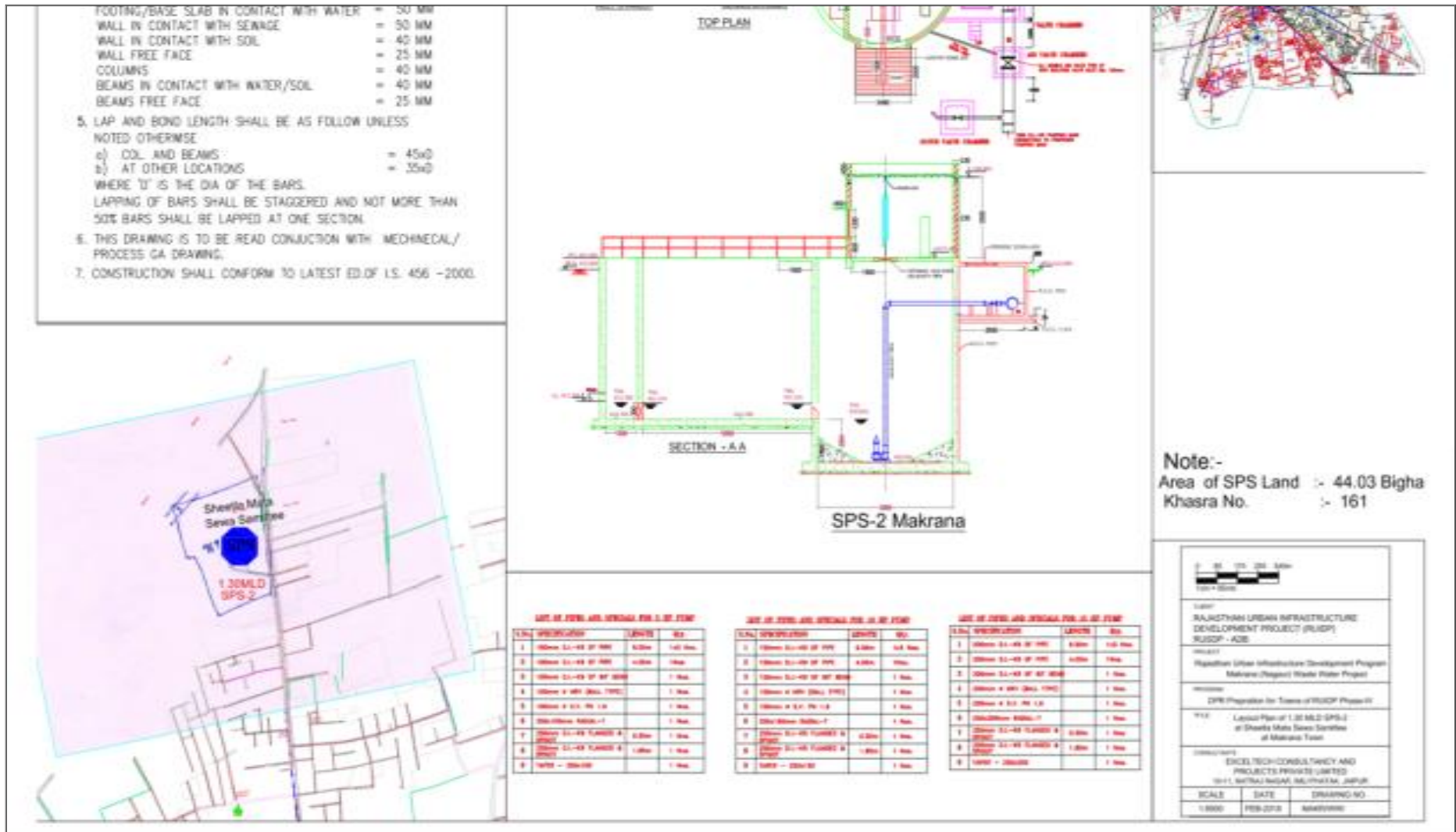


Figure 5: Layout Plan of Sewage Pumping Station near Sheetla Mata



11. Based on the site feasibility and topography, the town has been divided into nine drainage zones namely Zone-1, Zone-2, Zone-3, Zone-4, Zone-5, Zone-6, Zone-7, Zone-8 and Zone-9.

12. The zone-wise details proposed coverage (percentage of network length covered in each ward as against the estimated demand) under RSTDSP subproject is as below:

- (i) **Zone-1:** proposed coverage-65% of Ward-1, 10% of Ward-5, 30% of Ward-8, 100% of Ward-9 & Ward-10, 25% of Ward-11, 40% of Ward-12, 90% of Ward-13, 100% of Ward-14 to Ward-17, 98% of Ward-18, 30% of Ward-19, 80% of Ward-20, 100% of Ward-21 to Ward-32, 80% of Ward-33, 5% of Ward-34, 50% of Ward-36, 100% of Ward-37 to Ward-40. The unsewered length of this zone is 4.66 km, proposed to be connected to the existing manhole N-2469 of Zone-9 by gravity;
- (ii) **Zone-2:** proposed coverage- 100% of Ward-2 and Ward-3, 95% of Ward-4, 80% of Ward-5, 2% of Ward-6. The unsewered length of this zone is 14.20 Km, proposed to be connected to the N-2987 of Zone-1 by gravity;
- (iii) **Zone-3:** proposed coverage- 5% of Ward-4, 10% of Ward-5, 98% of Ward-6, 100% of Ward-7, 70% of Ward-8, 35% of Ward-11, 100% of OA-6. The unsewered length of this zone is 21.07 km. Sewage is proposed to be conveyed by gravity up to proposed SPS-1 located at Jhalra Pond and the sewage from pumping station (SPS-1) will be pumped to Node-75 of Zone-1;
- (iv) **Zone-4:** proposed coverage- 55% of Ward-41, 100% of Outer Area-5. Total proposed length of sewer pipeline in this zone is 9.67 km, proposed to be connected to the N-3292 of Zone-5 by gravity;
- (v) **Zone-5:** proposed coverage- 40% of Ward-11, 60% of Ward-12, 7% of Ward-13, 45% of Ward-41, 100% of OA-4. Total proposed length of sewer pipeline of this zone is 5.64 Km, to be connected to the existing manhole N-33301 of Zone-5, existing manhole N-3322 of Zone-5, by gravity;
- (vi) **Zone-6:** proposed coverage- 3% of Ward-13, 2% of Ward-18 & Ward-19, 100% of OA-3. Total proposed length of sewer pipeline of this zone is 6.80 Km, to be connected to the N-779 of Zone-6, existing manhole N-630B of Zone-1, existing manhole N-546 of Zone-6, by gravity;
- (vii) **Zone-7:** comprises 68% of Ward-19, 100% of OA-2. Total proposed length of sewer pipeline in this zone is 6.11 Km, proposed to be connected to the N-9510 of Zone-1, existing manhole N-39 of Zone-1, by gravity;
- (viii) **Zone-8:** Proposed coverage- 20% of Ward-20 and Ward-33, 95% of Ward-34, 100% of Ward-35, 50% of Ward-36, 100% of OA-1. Total proposed length of sewer pipeline in this zone is 18.27 Km, to be connected by gravity up to proposed SPS-2 located at Sheetla Mata Seva Samiti and the sewage from pumping station (SPS-2) is pumped to Node-3230 of Zone-8; and
- (ix) **Zone-9:** Proposed coverage- 35% of Ward-1. Length of unsewered area of this zone is 2.79 Km. proposed to be connected to the 1200 mm dia existing trunk line (existing manhole N-1565 of Zone-9) by gravity to STP. The details of depth of proposed sewer zone are attached in Appendix 2.

Table 3: Length of sewer lines by size

S. No.	Sewer Dia	Type of Pipe	Depth-wise Sewer Network Length (in meter)									Total length (m)
			up to 1.5	1.5 - 3.0	3.0 - 4.5	4.5 - 6.0	6.0 - 7.5	7.5 - 9.0	9.0 - 10.5	10.5 - 12.0	12.0 - 13.5	
1	200 MM	HDPE DWC SN8	29,094	44,748	5,189							79,031

S. No.	Sewer Dia	Type of Pipe	Depth-wise Sewer Network Length (in meter)									Total length (m)
			up to 1.5	1.5 - 3.0	3.0 - 4.5	4.5 - 6.0	6.0 - 7.5	7.5 - 9.0	9.0 - 10.5	10.5 - 12.0	12.0 - 13.5	
2	250 MM	HDPE PE-100/PN-6			4,779	3,270	1,251	317	67			9,684
3	250 MM	HDPE DWG SN8		502	603							1,105
4	315 MM	HDPE PE-100/PN-6			400	742	1,076					2,218
5	350 MM	RCC NP-4	191	2,566	319							3,076
6	400 MM	RCC NP-4		62								62
7	400 MM	HDPE PE-100/PN-6			261	61	40		102	331	29	824
8	1200 MM	RCC NP-4		500								500
Total			29,285	48,378	11,551	4,073	2,367	317	169	331	29	96,500

Figure 6: Layout of Sewerage System

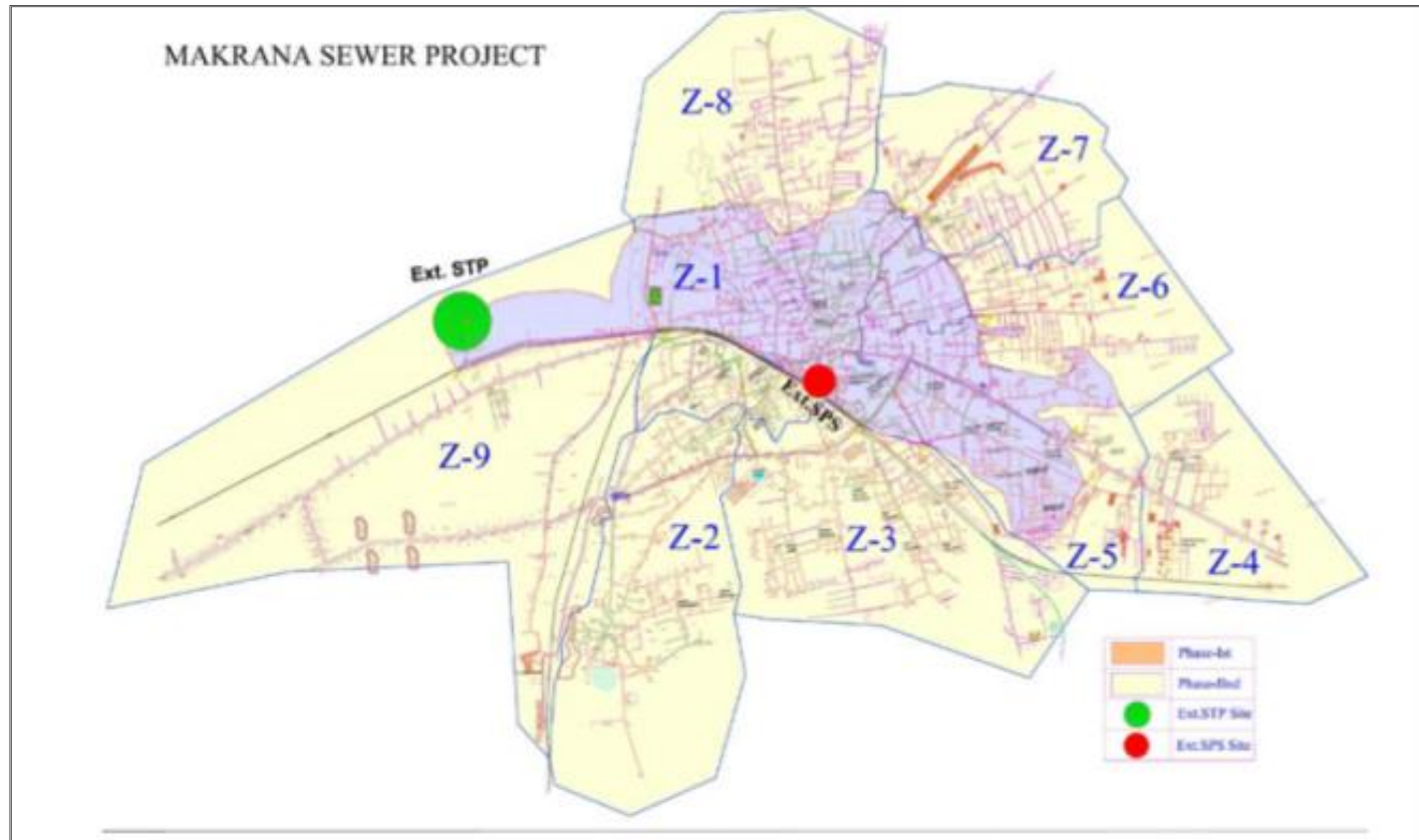
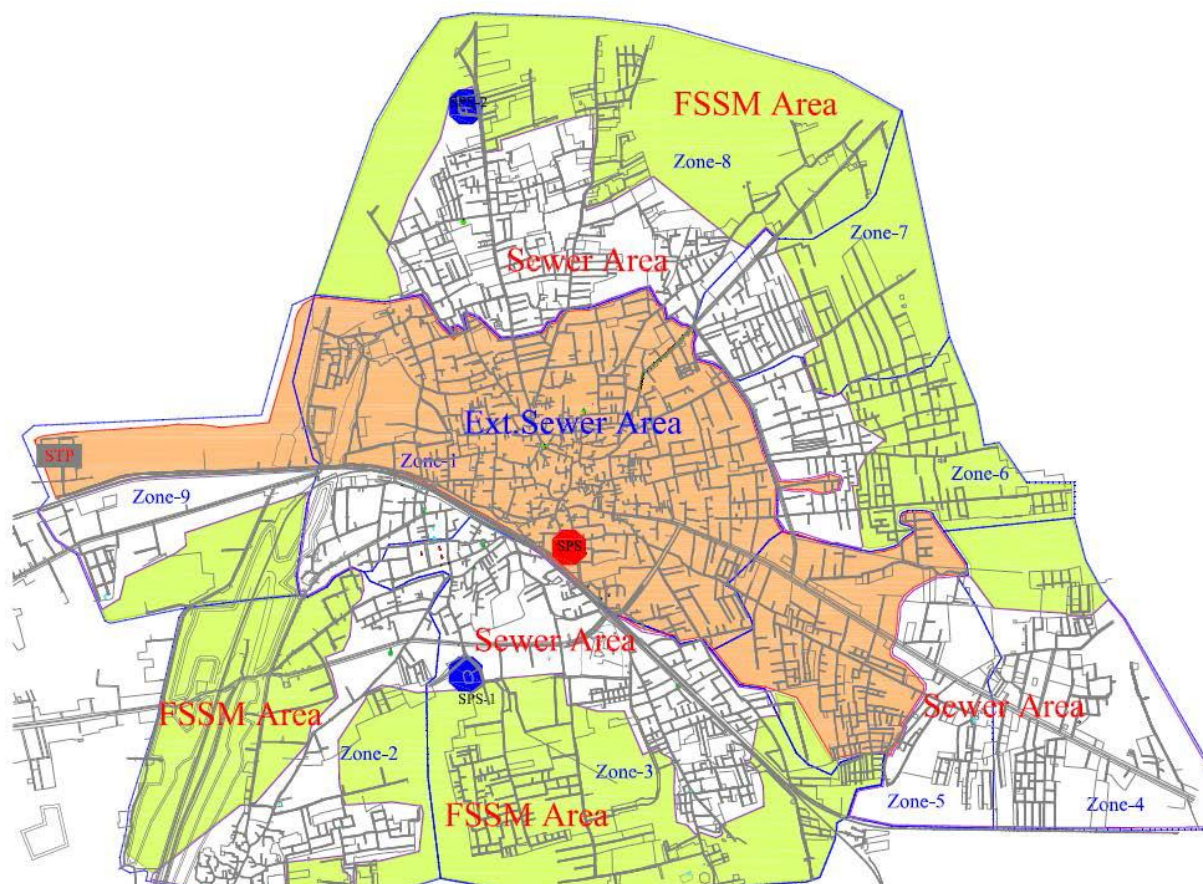


Figure 7: Areas Covered under FSSM in Makrana



IV. FIELD SURVEYS AND PUBLIC CONSULTATIONS

13. Field visit and transect walk were carried out in the subproject area. The team involved in this exercise are DPR consultants, safeguard consultant from PMU, and staff from ULB office. Works are mostly proposed in residential areas as well as areas in the outskirts of the town and within the RoW of the government road. No vendors/squatters were identified during the transect walk. Sewer lines in core / commercial areas are already laid under Urban Infrastructure Development Scheme for Small and Medium Towns (UIDSSMT) project. A series of public consultations as well as meetings and discussions were held with key informants and local community in order to collect information for this due diligence report.

14. In addition, consultations were conducted with the officers of Nagar Palika, Public Health Engineering Department (PHED), and other stakeholder agencies. Participatory methodology was used to facilitate discussions in the community meetings to solicit ideas and views on the proposed subproject. The consultations indicate that a major demand from the community members is for the extension of sewer network coverage to areas that are not yet covered. The consultations also include discussions about the project objectives, RSTDSP implementation arrangements including grievance redress mechanism (GRM) and the safeguards requirements as laid down in the ADB SPS. Appendix 3 summarizes the details of public consultations.

15. Community engagement, public consultations and information disclosure will be an ongoing exercise through the entire subproject planning and implementation phase. An indicative list of consultations to be conducted in future and schedule is presented in the table below. Progress achievements in this respect will be reported in the semi-annual social monitoring reports by the PMU.

Table 4: Schedule of Consultation and Disclosure Activities

Activities	Target Group	Responsible Agency	Timeline
Awareness generation about the project activities	Key stakeholder agencies (ULB, stakeholder department/offices such as PHED, elected representatives)	PIU/CAPPC/CMSC/contractor with PMU/PMCBC inputs and support	During detailed design, prior to start of construction, and continuously, during construction
Disclosure of construction schedule, potential temporary disturbances and GRM	Beneficiaries (site-specific consultations)	PIU/contractor/CAPC/CMSC	During construction
Town wide stakeholder consultations	Dissemination of project related technical and other information to representatives of all key stakeholders (at one platform), disclosure of summary of social safeguard documents in local languages, proposed connection charges and tariffs, roles and responsibilities of stakeholders.	PIU/CAPPC/CMSC/contractor with PMU/PMCBC support	Once a year during project implementation cycle

V. SCOPE OF LAND ACQUISITION AND RESETTLEMENT

16. The scope of land acquisition and involuntary resettlement impacts has been identified based on the field visits and transect walk to all the subproject components' location. Table 5 below summarizes the land acquisition and involuntary resettlement impacts of the proposed subproject. No impacts on private land, structures and livelihood is anticipated, as all works are proposed on available government lands. Potential temporary access disruptions for residences and passerby will be avoided. Appendix 4 presents the land allotment from *Nagar Palika* for the proposed STP and SPS.

Table 5: Subproject Components and Summary of Involuntary Resettlement Impact

S. N.	Name of the Components	Land Acquisition and Involuntary Resettlement Impacts		Remarks
		Permanent Impact	Temporary Impact	
1	Construction of 1 STP, Borawar road. Treated Effluent Elevated Reservoir, Treated Effluent Storage Reservoir,	None	None	STP will be constructed on the available vacant government owned land adjacent to existing STP and within the campus. Land is under the possession of Nagar Palika. There is no private land or property,

S. N.	Name of the Components	Land Acquisition and Involuntary Resettlement Impacts		Remarks
		Permanent Impact	Temporary Impact	
	Effluent Pumping station			permanent or temporary structures or non-titled users or encroachers. No involuntary resettlement impact is anticipated. Appendix 5 provides the Khasra map, revenue records and google map of the proposed STP.
2	Construction of 2 Sewage Pumping Station with capacity of 2.30 and 2.10 MLD	None	None	SPS-1 (2.30 MLD) will be constructed near Jhalra pond. IEE report of this subproject confirmed that the area is suitable and will not affect the water body (pond). Further, the water accumulated in the pond is primarily wastewater of the town along with storm water from drains. The accumulated water (wastewater) is not used for any domestic purpose or otherwise, by any individual or community. It is also a low-lying area and the SPS will manage the draining sewage water away from the catchment. Consultations with the local community are included for the awareness and concurrence of the subproject component. Refer Appendix 4 for the summary of public consultations. The land is not utilized for any use and hence, the site is proposed for the SPS. It is under the possession of Nagar Palika. No involuntary resettlement impact is anticipated. Refer Appendix 6. The proposed location for the SPS-2 (2.10 MLD) near Sheetla Mata remains unused by the community, although classified as a pastureland.³ The site was found to be filled with heaps of

³ As per Government of Rajasthan notification, dated 13th February, 2017, pasture land can be used for other purpose, however, land use will have to be changed/converted by the District Collector before converting to other land use by ULB.

S. N.	Name of the Components	Land Acquisition and Involuntary Resettlement Impacts		Remarks
		Permanent Impact	Temporary Impact	
				construction waste and other household waste materials and is not in use as pastureland. There is no private land or property, permanent or temporary structures or non-titled users or dwellers. Hence, involuntary resettlement impacts are not anticipated. Correspondence has been made with District Collector for land allotment of 900 m². The land is not currently vested with the Urban Local Body (ULB) or the Nagar Palika. The process of conversion is under progress. Stakeholder consultation will be conducted with the local communities and the Gram Panchayat to ascertain that there is no loss of common property resources. No Objection Certificate needs to be obtained. Refer to Appendix 6 and 7 for land records and site maps. Appendix 8 indicates the government order for the two STPs.
3	One CRMC	None	None	The CRMC will be constructed within the compound of the proposed SPS near Jhalra Pond. Land is under the possession of Nagar Palika.
4	Laying 96.5. km sewer lines and Rising main -1600 meters	None	None	The pipelines will be laid below the edge of the road within the existing government road rights-of-way (ROW). No involuntary resettlement impacts due to pipe laying on permanent/semi-permanent structures and livelihoods of the people are assessed. In congested areas the pipe will be laid by trenchless technologies, with adequate care of public safety. Core commercial areas of the town already have sewer network

S. N.	Name of the Components	Land Acquisition and Involuntary Resettlement Impacts		Remarks
		Permanent Impact	Temporary Impact	
				coverage (provided under UIDSSMT project earlier).
5	House Connections - 8,900 units	None	None	No involuntary resettlement impact is anticipated.

Source: Transect walks, technical documents and analysis, Makrana, Nagar Palika, 2019.

Table 6: Details of land availability, ownership and status of No Objection Certificate (NOC) for sites

Project Component	Location	Ownership	Area of government land available at the location (m ²)	Area required (m ²)	Khasra No.	Khata No.	Remarks	Photo of Land
Sewerage System								
Construction of 1 STP of 7.70 MLD capacity with SBR technology, Treated Effluent Elevated Reservoir, Treated Effluent Storage Reservoir, Effluent Pumping station.	Borawar road near railway line in Makrana Town.	Nagar Palika	35,886	8,000	661	1158	Works to be carried out in existing STP campus owned by Nagar Palika. See Appendix 5.	
Construction of Sewage Pumping Station (2.30 MLD) and CRMC	Near/ adjoining Jhalra Pond	Nagar Palika	161,856	500	684	1156	Refer to Appendix 6 and Appendix 6(b).	
Construction of one Sewage Pumping Station (2.10 MLD)	Near Sheetla Mata Sewa Samiti	Nagar Palika	53,109	400	743	1159	Land records are attached in Appendix 7. SPS near Sheetla Mata is pastureland. Nagar palika requested District Collector for allotment of this land.	

Source: Site visit and transect walk, Makrana, 2019.

17. Pipelines will be laid in the vacant right of way of roads which belong to the government. No resettlement impacts, impacts on structures or livelihoods of the people are anticipated. Since the density of housing is low and the houses are spread out, the possibility of access disruptions to houses during pipe laying and house connections are unlikely. Further, sewer network coverage in core commercial areas of the town was completed under UIDSSMT project. Hence, no temporary economic impacts are anticipated due to laying of sewer network.

Table 7: Summary of Proposed Sewer Network

S. No.	Details of Network	Length (in meter)	Road Width (in meter)	Dia of Pipe
1	Total Sewer Network in Town	96,500	4 m to 20 m	200 mm to 1200 mm
2	Total Sewer Network in Major Road - NH/SH	2,448	7 m to 20 m	
3	Total Sewer Network in Colony Road/ Internal Road	94,052	4 m to 7 m	

Source: Preliminary Detailed Project Report, 2019.

18. Details of proposed sewer network, available ROW for roads, dia. of pipes and depth of trenches to be cut for pipe laying are presented in Table 7. Photographs and other relevant details for roads where pipes of major dia are proposed for laying are also presented in the Tables 8.

19. Keeping this in view, physical verification/field observations were made for all the roads in the subproject area to assess if existing available ROW of government roads and the road width/Row is sufficient, and if avoidance or involuntary resettlement impact is possible or not. Based on site visit observations, no loss of structure and common property resources (CPR) or any other involuntary resettlement impact is anticipated under the subproject.

Table 8: Photographs of City Roads leading to the Proposed Main Pipelines

Name of Area	Road width	Dia	Pipe Material	Photographs
Gunawati Road	10-12 meter	400 mm	HDPE	
Mandi road	10-12 meter	400 mm	HDPE	
Matabhar Road	12-15 meter	400 mm	HDPE	

Name of Area	Road width	Dia	Pipe Material	Photographs
Borawar Road	20 meter	400 mm	HDPE	
Matabhar Road	12-15 meter	400 mm	HDPE	
Borawar Road	20 meter	300 mm	HDPE	

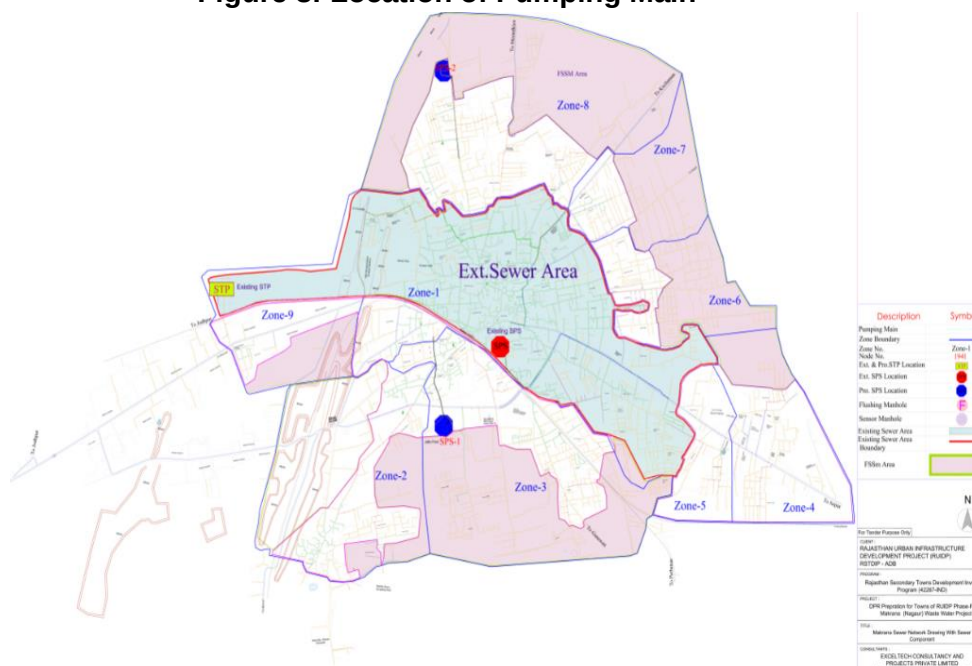
Name of Area	Road width	Dia	Pipe Material	Photographs
Road leading to SPS (2.30 MLD) site (proposed near Jhalra Pond), area near to Borawar Road, Makrana	8-10 meter	400 mm	High density poly-ethylene (HDPE)	
Adarsh Nagar, Makrana	5-8 meter	300	HDPE	
Road leading to proposed STP site at Borawar road, near railway line (500 meter for disposal of treated effluent)	10-12 meter	1200mm	HDPE	

Table 9: Photographs of Rising Main for the Sewerage Pumping Station

S. No.	SPS	Capacity	Location	Pumping Main discharge	Length of Pumping Main	Dia of pipe	Road Width	Photos
1	SPS-1	2.30 MLD	Near Jhalra Pond	Zone-1, Node-75	800m	250mm	4 to 8 meter	
2	SPS-2	1.80 MLD	Near Sheetla Mata Seva Samiti	Zone-8, Node-3230	800m	250mm	4 to 8 meter	

20. During transect walk, it was also observed that in a few locations where pipe laying is proposed, the streets/roads are narrow⁴ (road width varies from 8 m to 10 m). The Sewer pipelines are proposed primarily in the outskirts of Makrana town which is predominantly residential in nature. The population living in these areas are from middle and low income groups. The proposed areas have no sewerage network at present. Sewer network coverage in core commercial areas of the town was completed under UIDSSMT project. Details are illustrated in Figure 8 below.

Figure 8: Location of Pumping Main



21. The meeting and discussion made with the design team confirmed that trenchless work will be taken up in the above-mentioned areas with narrow roads⁵ to avoid inconvenience to the households (Refer to Table 8). The works will be taken up with all safety provisions both for the local community and labour. Extensive consultations will be carried out with the residents and they will be informed prior to the start of civil works. Construction/civil works during night time work may also be opted for busy sections with prior permission, stakeholder consultation and noise control measures. House connections will be provided in this subproject and can be carried out without any major access disturbance.

⁴ Some narrow roads or areas with narrow roads and streets are Moti Masjid Mohalla-Bidiyat Road, Mali Mohalla, Gewariyon Ka Mohalla, Near Jhalra Pond area- Borawar Road, Vrindavan Colony, Bajrang Colony- Jaipur Road, Gurjar Colony- Jaipur Road, Chhatriyon ka Mohalla, Maliyon ki Dhani, Harijan Basti, Balmiki Colony etc.

⁵ Moti Masjid Mohalla-Bidiyat Road, Mali Mohalla, Gewariyon Ka Mohalla, Near Jhalra Pond area- Borawar Road, Vrindavan Colony, Bajrang Colony- Jaipur Road, Gurjar Colony- Jaipur Road, Chhatriyon ka Mohalla, Maliyon ki Dhani, Harijan Basti, Balmiki Colony, Shiv Colony, Mominpura and Joosariya Road.

Table 10: Detail of Sewer Lines by trenchless technology method

S. No.	Sewer Dia	Type of Pipe	Zone wise Sewer Network Length - Trenchless Method (m)									Total length (m)
			Z-1	Z-2	Z-3	Z-4	Z-5	Z- 6	Z-7	Z-8	Z-9	
1	250 MM	HDPE PE-100/PN-6		1944	2188	1589	1175	221	919	1362		9398
2	315 MM	HDPE PE-100/PN-6		230	745				459	727		2161
3	400 MM	HDPE PE-100/PN-6			131					486	184	801
Total				2174	3064	1589	1175	221	1378	2575	184	12360

Source: Preliminary Detailed Project Report, 2019

22. Pipelaying works are proposed in areas with low traffic load, hence, impact on traffic is anticipated to be minimal. The construction will be undertaken on one side of the road first and on completion of the same, start work on the other side to minimize impact on traffic. The pipe laying and alternative traffic routing will be assessed in advance and the contractor will be required to provide signages as per site specific requirement. The contractor will also ensure access to residences using simple wooden/concrete walkways where required and minimize the excavation beyond road length of 500 m at a time and refill the excavated area within the stipulated timeline. Construction contracts will include the above provisions.

23. To further minimize the possibility of construction impacts, work will be executed during the early morning hours in order to avoid inconveniences to the public and business activities. All safety norms would strictly be adhered to and the Project Implementation Unit (PIU) will also ensure that all the necessary compliances are observed by the contractor. The actual dates of construction schedule will consider rush hour, festival time, and special business days will be discussed with market committee members, and residents, and accordingly, construction activities will be planned. After laying pipes, the lane/road will be restored to its original condition (including bitumen, cement concrete and interlocking tiles as applicable).

24. **Indigenous Peoples.** No land acquisition or involuntary resettlement impacts is assessed as result of the subproject. Makrana is not located in a scheduled area⁶ as per Government of India 2018 notification. The town has a small proportion of population (0.08%) classified as scheduled tribe,⁷ which is scattered (does not stay in tribal groups/community enclaves), is well-assimilated in urban society and does not retain the characteristics of scheduled tribes or

⁶ As per the Constitutional provision under Article 244 (1) of the Constitution of India, the 'scheduled areas' are defined as "such areas as the President may by order declare to be scheduled areas" - as per paragraph 6(1) of the Fifth Schedule of the Constitution. The specification of "Scheduled Areas" in relation to a State is by a notified order of the President, after consultation with the State Government concerned. The same applies in the case of any alteration, increase, decrease, incorporation of new areas, or rescinding any Orders relating to "Scheduled Areas". Criteria for declaring any area as a "Scheduled Area under the Fifth Schedule are: • Preponderance of tribal population, • Compactness and reasonable size of the area, • A viable administrative entity such as a district, block or taluk, and • Economic backwardness of the area as compared to the neighbouring areas. Source:

<https://tribal.nic.in/declarationof5thSchedule.aspx>

<https://tribal.nic.in/divisionsfiles/clm/scheduledareas.pdf>

⁷ "Scheduled tribes (scheduled tribes) are those communities notified as such by the President of India under Article 342 of the Constitution. The first notification was issued in 1950. Criteria followed for specification of a community as a scheduled tribe are (i) tribes' primitive traits; (ii) distinctive culture; (iii) shyness with the public at large; (iv) geographical isolation; and (v) social and economic backwardness before notifying them as a scheduled tribe."

Source: <https://pib.gov.in/pressreleaseiframepage.aspx?PRID=1514486>

and

https://ncst.nic.in/sites/default/files/2017/office_order/798.pdf

indigenous peoples⁸ groups. No impact on indigenous people/communities, involving direct or indirect impact to the dignity, human rights, livelihood systems or territories or natural or cultural resources that are used, owned, occupied or claim, is anticipated.

VI. INFORMATION DISSEMINATION

25. The DDR will be made available for reference in the offices of the Nagar Palika, PHED, Project Implementation Unit, Project Management Unit and ADB website for easy access to all stakeholders including the local community of Makrana.

VII. GRIEVANCE REDRESS MECHANISM

26. A project-specific, three-tier grievance redress mechanism (GRM) covers both environment and social issues. The GRM will be established to receive, evaluate, and facilitate the resolution if there are concerns, complaints and grievances from affected persons, if any, about the social and environmental performance at project level. The GRM will aim to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns related to the project. Assessment of the GRM designed and implemented for Rajasthan Urban Sector Development Program (RUSDP)⁹ shows that the system was effective in timely resolution of grievances in a transparent manner.¹⁰ The multichannel, project-specific, three-tier GRM is functional at RUSDP, hence, the design of GRM for RSTDSP takes into account the proposed institutional structure for RSTDSP and the positive features and learnings from the previous GRM.¹¹

27. **Common GRM.** A common GRM will be in place for social, environmental, or any other grievances related to the project. The implementation of due diligence report will follow the GRM described below. The GRM will provide an accessible and trusted platform for receiving and facilitating resolution of affected persons' grievances related to the project.

⁸ ADB SPS 2009 uses the term indigenous peoples in a generic sense to refer to a distinct, vulnerable, social and cultural group possessing the following characteristics: (i) self-identification as members of a distinct indigenous cultural group and recognition of this identity by others; (ii) collective attachment to geographically distinct habitats or ancestral territories in the project area and to the natural resources in these habitats or territories; (iii) customary cultural, economic, social or political institutions that are separate from those of the dominant society and culture; and (iv) a distinct language, often different from the official language of the country or region.

⁹ The procedures followed for grievance redress during implementation of RUSDP Phase III included the project GRM and the pilot GRM software application (Smart Check) in Pali, the Sampark portal of Government of Rajasthan, and the Chief Minister's helpline. Complaints received through various channels were mostly minor and pertained to damage to existing water supply pipelines and disruption of water supply during construction, delays in road restoration, and pending new connections. Complaints related to damage to private property (compound walls/steps, etc.) were less in number. The grievances were mostly possible to resolve in coordination with the contractors. Complaints received were immediately referred by the CAPPC/PMDSC supervision staff to the PIU Nodal officer (safeguards) and concerned engineer at PIU, who advised them on further action. Follow up with the contractor on complaint resolution was undertaken by PIU Nodal officer CAPPC and PMDSC and final feedback sought from complainant upon resolution. Complaints requiring inter-departmental coordination were referred to the PMU for resolution, and feedback provided to complainant. The PMU kept regular track of grievances through WhatsApp and email alerts, ensuring registration and follow-up until resolution.

¹⁰ Town-level grievance registration data indicates that a large number of grievances were registered, pointing to the effectiveness of the multi-channel GRM. No major grievance was received for RUSDP Phase III. The GRM helped smoothen the process of project implementation, hence the proposed architecture for the RSTDSP GRM remains similar, with some refinement, taking into account the changes in institutional setup proposed for project implementation.

¹¹ Continued logistics support at field level will be key to successful management of grievance redress under RSTDSP. The target date for establishment of the first level (PIU level) and second level (Zonal level) of GRM is before loan negotiation.

28. Public awareness campaigns within entire ULB/Municipal area will ensure that awareness on grievance redress procedures is generated. The nodal officer- safeguards and gender supported by ASO at zonal level, will oversee the conduct of ULB/project coverage area-based awareness campaigns by the town-level safeguards and safety officers, through the CAPPC. The awareness campaigns will ensure that poor and vulnerable households are made aware of grievance redress procedures and entitlements. Contractors will provide pamphlets to communities prior to start of works and billboards during construction. The pamphlets and billboards will include relevant environmental and social safeguards, GRM information, and contact details of key personnel from PIU and contractors.

29. Affected persons will have the flexibility of conveying grievances/suggestions by dropping grievance redress/suggestion forms in complaint/suggestion boxes that will be installed by project PIUs or by e-mail, by post, or by writing in a complaints register in ULB offices/complaints register at contractor's work site¹² or by sending a WhatsApp message to the PIU¹³ or by dialling the phone number of town level PIU/CAPPC or by dialling a toll-free number.¹⁴ Any aggrieved person can also avail the facilities of online grievance monitoring system 'Rajasthan Sampark' portal to register their grievances which is a parallel mechanism of grievance registration, in addition to the project GRM.¹⁵ Careful documentation of the name of the complainant, date of receipt of the complaint, address/contact details of the person, location of the problem area, and how the problem was resolved will be undertaken and feedback provided to the complainant on action/decision taken. The SSO of town/city level PIU will have the overall responsibility for timely grievance redressal on environmental and social safeguards issues and for registration of grievances, related disclosure, with the assistance of project consultants. In case of grievances that are immediate and urgent in the perception of the complainant, the contractor, and officials of PIU with assistance from CMSC and CAPPC on-site will provide the most easily accessible or first level of contact for quick resolution of grievances. Contact numbers and names of the concerned PIU safeguard and safety officer, contractors, CAPPC and CMSC personal will be posted at all construction sites at visible locations.

- (i) **1st level grievance.** The contractors, PIU executive engineer /assistant engineer designated as SSO (social and environment), CMSC (safeguard staff) and CAPPC can immediately resolve issues on-site, in consultation with each other and will be required to do so within 7 days of receipt of a complaint/grievance. If required, city level monitoring committee (CLMC)¹⁶ will be involved in resolution of grievances at the 1st level;

¹² RUSDP piloted an online application based live GRM counter for resolution of public grievances over and above the usual process of grievance registration and redressal. This app based GRM - "RUIDP Smart Check" is available at Google play store (free of cost) and is operational. The RUIDP Smart Check "app" was launched in Pali town in July 2017 and is proposed to be scaled up in RSTDSP project towns. For persons without access to the application, the traditional channels will continue to be available.

¹³ It is suggested for each PIU to have a dedicated WhatsApp group for registration of grievances and receipt of quick feedback, to be followed by more formal communication.

¹⁴ Project contractors in all project towns will have a toll-free number with specific working hours for registration of grievances related to RSTDSP.

¹⁵ [HTTP://WWW.SAMPARK.RAJASTHAN.GOV.IN/RAJSAMWELCOME.ASPX](http://www.sampark.rajasthan.gov.in/RajSamWelcome.aspx)

¹⁶ The CLMC has been formed at the town/city level for planning and monitoring of work, resolve issues related to departmental coordination etc. It is headed by Commissioner/Executive Officer ULB (Chairman) and city engineer of public health engineering department (PHED), public works department (PWD) and head of PIU acting as Member Secretary.

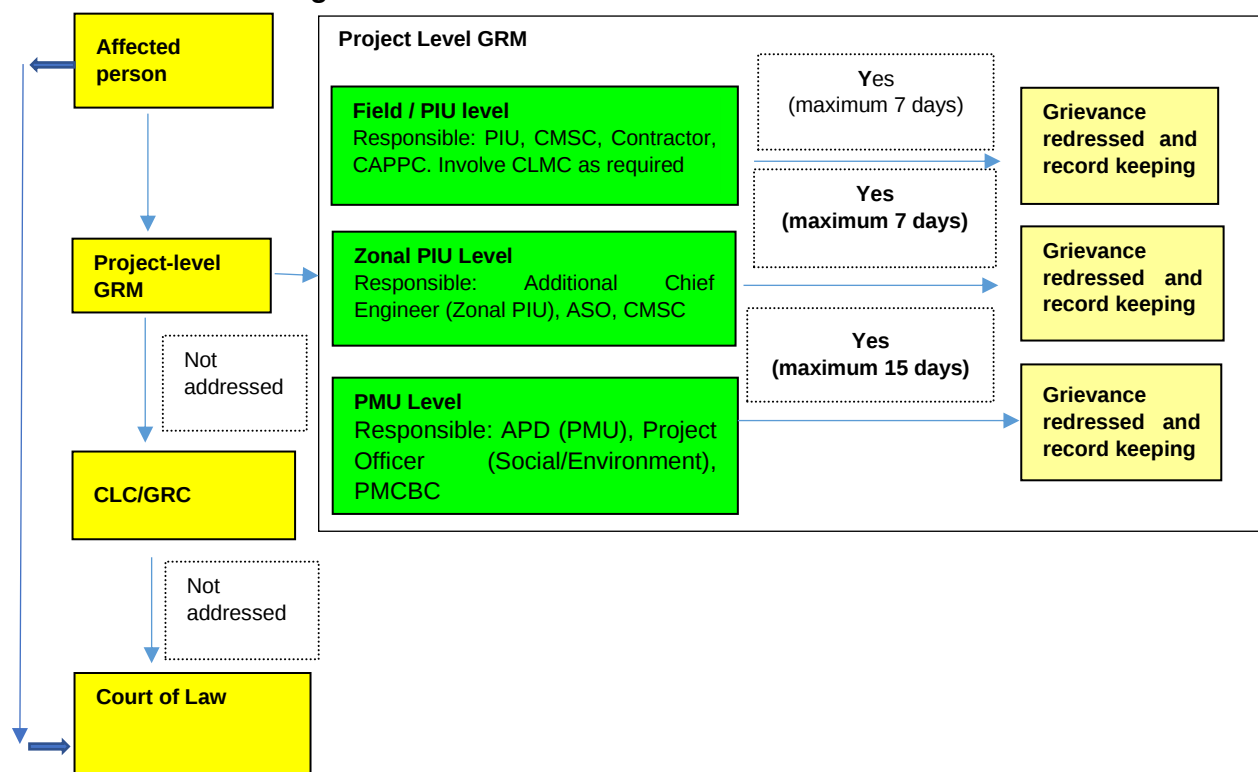
- (ii) **2nd level grievance.** All grievances that cannot be redressed within 7 days at field/PIU level will be brought to the notice of Zonal PIU headed by Additional Chief Engineer (ACE). The ACE at zonal PIU will resolve the grievance within 7 days of receipt of complaint/grievance in discussion with the assistant safeguard officer (ASO), field level PIU, CMSC, CAPPC and the contractor;
- (iii) **3rd level grievance. 3rd level grievance.** All the grievances that are not addressed by Zonal PIU within 7 days of receipt will be brought to the notice of the PMU. Depending on the nature of grievance, the Project Officer (Social/Environment) at PMU will resolve the grievance within 15 days of receipt of grievance with necessary coordination of Zonal PIU and CMSC and guidance/instruction of additional project director (APD-PMU).

30. Grievances not redressed through this process within/at the project level within stipulated time period will be referred to the CLC/grievance redress committee (GRC), which has been set up.¹⁷ In its role as a GRC, the CLC will meet whenever there is an urgent, pending grievance. Other grievances can be discussed during its regular meetings. Zonal PIU will inform the CLC regarding any grievances required to be resolved urgently. The GRC will resolve the grievance within 15 days of receiving the complaint. In case of any indigenous peoples impacts in subprojects, the CLC/GRC must have representation of the affected indigenous people community, the chief of the tribe or a member of the tribal council as traditional arbitrator (to ensure that traditional grievance redress systems are integrated) and an NGO working with indigenous people groups. GRC will also ensure that grievance mechanism established is gender inclusive in receiving and facilitating resolution of the IPs' concerns; and

31. The multi-tier GRM for the project is outlined below (Figure 9), each tier having time-bound schedules and with responsible persons identified to address grievances and seek appropriate persons' advice at each stage, as required. The GRC will continue to function throughout the project duration.

¹⁷ City Level Committee (CLC)/grievance redress committees (GRCs) has been constituted for each town/city under the Chairmanship of District Collector to provide overall subproject guidance and "to sort out issues and remove hindrances, if any". CLC formed at city-level/district level with members composed of: District Collector as Chairperson, and following as members: ULB Commissioner/Mayor/Chairman; Deputy Mayor/Vice Chairman ULB; Chairman / Secretary Urban Improvement Trust (UIT); Head of Zonal/field level PIU as Member Secretary; one representative each from relevant government departments as appropriate (PWD/PHED/Town Planning Department etc.). All CLCs in their role as GRCs will have at least one-woman member/chairperson. In addition, for project-related grievances, representatives of affected persons, community-based organizations (CBOs), and eminent citizens will be invited as observers in GRC meetings. The concerned Member of Parliament (MP) and Member of Legislative Assembly are also part of the CLC.

Figure 9: Grievance Redress Mechanism-RSTDSP



Note: APD = additional project director, ASO = assistant safeguards officer, CAPPCC = community awareness and public participation consultant, CMSC = construction management and supervision consultants, CLC = city level committee, CLMC = city level monitoring committee, GRC = grievance redress committee, PIU = project implementation unit, PMU = program management unit, PMCBC = project management and capacity building consultant.

32. The project GRM, notwithstanding, would ensure an aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM. In case of grievance related to land acquisition, resettlement and rehabilitation, the affected persons will have to approach a legal body/court specially proposed under RFCTLARRA, 2013.¹⁸

33. People who are, or may in the future be, adversely affected by the project may submit complaints to ADB's Accountability Mechanism. The Accountability Mechanism provides an independent forum and process whereby people adversely affected by ADB-assisted projects can voice, and seek a resolution of their problems, as well as report alleged violations of ADB's operational policies and procedures. Before submitting a complaint to the Accountability Mechanism, affected people should make an effort in good faith to solve their problems by working with the concerned ADB operations department. Only after doing that, and if they are still dissatisfied, should they approach the Accountability Mechanism.¹⁹

¹⁸ The Authority admits grievance only with reference to the Land Acquisition and R&R issues under the RFCTLARRA, 2013.

¹⁹ Accountability Mechanism. <http://www.adb.org/Accountability-Mechanism/default.asp>.

34. **Record-keeping.** The city-level PIU will keep records of grievances received, including contact details of complainant, date the complaint was received, nature of grievance, agreed corrective actions and the date these were affected and final outcome. The number of grievances recorded and resolved, and the outcomes will be displayed/disclosed in the PMU office, PIU offices, and on the web, as well as reported in monitoring reports submitted to ADB on a semi-annual basis. The Grievance registration format is attached in Appendix 9. This format will be translated in to local language and made available to all stakeholders.

35. **Periodic review and documentation of lessons learned.** The PMU Project Officer (Social and Environment) will periodically review the functioning of the GRM in Makrana town and record information on the effectiveness of the mechanism, especially on the project's ability to prevent and address grievances.

36. **Costs.** Contractors are required to allocate budget for pamphlets and billboards as part of the EMP. Costs involved in resolving the complaints (meetings, consultations, communication and reporting/information dissemination) will be borne by the PIU at town-level while costs related to escalated grievances will be met by the PMU.

VIII. CONCLUSION

37. The findings from field visit, public consultation and stakeholder consultations and initial screening for involuntary resettlement and indigenous people impacts, suggest that the subproject is not anticipated to cause any permanent or temporary, direct or indirect, impacts. Nevertheless, the impacts of the subproject will be reassessed during finalization of detailed design (assessment of alternatives, final sites and alignments and scope of work), the social safeguards document updated and ADB's clearance obtained prior to commencement of civil works. In case any involuntary resettlement impact is identified at any stage of the subproject implementation, this safeguard document will be revised with appropriate revision of project category in accordance with ADB's safeguard Policy Statement, 2009.

38. During civil works, a participatory approach will be followed and will adhere to information dissemination requirements of the project. A Grievance Redress Mechanism will also be established for the project. The Executing Agency (EA) will ensure compliance to all applicable laws and ADB policy requirements.

IX. NEXT STEPS

39. Detailed measurement surveys will be conducted during and after finalization of the detailed design. In case any involuntary resettlement impacts identified, this due diligence report will be updated accordingly including the revision of project impact category and will be submitted to ADB for approval before start of civil works.

40. Formal and informal consultations will be carried out including, but not limited to: focus group discussions (FGDs), public meetings, community discussions, and in-depth and key informant interviews. Intensive information dissemination campaign will be conducted. The updated DDR will include details of such consultations.

41. Land of SPS-2 near Sheetla Mata is pastureland. Land use change and transfer (i.e., use of land being vested with ULB), consultation with local community, and NOC from gram panchayat will be obtained prior to award of the contract. Contract award will be made only after these requirements have been successfully achieved. Evidences including updated land records,

permissions, NOC and documentation of public consultation will be appended to the updated safeguard document.

Appendix 1 – Ward-wise Population Projection in Makrana

Ward No.	Total Area (Ha)	2011 Population			Projected Population			Density per Ha.			
		Male	Female	Total	2021	2036	2051	2011	2021	2036	2051
1	133.95	987	983	1970	2553	3103	3263	31	40	49	52
2	58	895	808	1703	1889	2064	2115	98	109	119	122
3	47.66	646	584	1230	1864	2462	2637	29	43	57	61
4	63.34	1421	1239	2660	2877	3081	3141	84	91	97	99
5	47.98	950	823	1773	2216	2634	2756	41	51	61	64
6	16.61	1101	1074	2175	2175	2175	2175	1309	1309	1309	1309
7	81.17	1002	926	1928	2540	3118	3287	30	39	48	51
8	9.76	1404	1360	2764	2764	2764	2764	2832	2832	2832	2832
9	7.72	591	569	1160	1281	1395	1429	150	166	181	185
10	18.95	1336	1274	2610	2742	2867	2903	138	145	151	153
11	69.89	1451	1382	2833	3282	3705	3829	41	47	53	55
12	21.29	1877	1676	3553	3662	3765	3795	167	172	177	178
13	19.47	911	910	1821	2015	2199	2253	94	104	113	116
14	10.45	1262	1230	2492	2568	2640	2661	238	246	253	255
15	5.63	1222	1074	2296	2341	2383	2395	408	416	423	425
16	6.04	1579	1512	3091	3127	3160	3170	512	518	523	525
17	3.61	1121	1092	2213	2243	2271	2279	613	621	629	631
18	16.65	832	763	1595	1785	1964	2016	96	107	118	121
19	34.03	1581	1490	3071	3273	3463	3518	90	96	102	103
20	16.08	1315	1277	2592	2705	2811	2842	161	168	175	177
21	3.22	1378	1284	2662	2684	2705	2711	827	834	840	842
22	8.44	1004	940	1944	2023	2097	2119	230	240	249	251
23	5.36	931	813	1744	1800	1853	1868	325	336	346	349
24	0.94	1119	1014	2133	2133	2133	2133	2269	2269	2269	2269
25	1.93	617	587	1204	1233	1261	1269	624	639	653	657
26	3.79	823	762	1585	1628	1670	1682	418	430	441	444
27	2.16	773	737	1510	1536	1561	1568	699	711	722	726
28	1.67	936	857	1793	1793	1793	1793	1074	1074	1074	1074
29	3.82	1078	1030	2108	2141	2172	2181	552	560	569	571
30	3.09	1513	1430	2943	2943	2943	2943	952	952	952	952
31	1.33	812	793	1605	1605	1605	1605	1207	1207	1207	1207
32	8.32	1464	1338	2802	2856	2907	2922	337	343	349	351
33	16.72	1063	1021	2084	2230	2368	2408	125	133	142	144
34	32.41	1899	1760	3659	3804	3941	3981	125	130	135	136

Ward No.	Total Area (Ha)	2011 Population			Projected Population			Density per Ha.			
		Male	Female	Total	2021	2036	2051	2011	2021	2036	2051
35	30.07	1381	1291	2672	2856	3030	3081	99	106	112	114
36	10.73	1966	1895	3861	3912	3959	3973	360	365	369	370
37	3.29	1258	1169	2427	2452	2475	2482	738	745	752	754
38	11.36	1533	1511	3044	3112	3176	3195	268	274	280	281
39	6.34	1428	1343	2771	2813	2852	2863	437	444	450	452
40	53.38	1569	1444	3013	3163	3304	3346	121	127	133	135
41	90.65	716	677	1393	2235	3030	3262	22	35	47	51
Total	987.3	48745	45742	94,487	100,854	106,859	108,613	2,832	2,832	2,832	2,832

Source: Census 2011 and Preliminary Design Report.

Appendix 2: Depth wise details of proposed Sewer Zone

Zone-1

S. No.	Sewer Dia	Type of Pipe	Depth wise Sewer Network Length (m)			Total Length (m)
			up to 1.5 m	1.5 -3.0 m	3.0 - 4.5 m	
1	200 MM	HDPE DWC SN8	1704	2224		3928
2	350 MM	RCC NP-4	191	830	175	1196
Total			1895	3054	175	5124

Zone-2

S. No.	Sewer Dia	Type of Pipe	Depth wise Sewer Network Length (m)					Total Length (m)
			up to 1.5 m	1.5 - 3.0 m	3.0 - 4.5 m	4.5 - 6.0 m	6.0 - 7.5 m	
1	200 MM	HDPE DWC SN8	4759	7245	959			12963
2	250 MM	HDPE PE-100/PN-6			822	789	378	1989
3	315 MM	HDPE PE-100/PN-6					236	236
Total			4759	7245	1781	789	614	15188

Zone-3

S. No.	Sewer Dia	Type of Pipe	Depth wise Sewer Network Length (m)					Total Length (m)
			up to 1.5 m	1.5 -3.0 m	3.0 - 4.5 m	4.5 - 6.0 m	6.0 - 7.5 m	
1	200 MM	HDPE DWC SN8	7149	10253	877			18279
2	250 MM	HDPE PE-100/PN-6			1306	797	149	2252
3	250 MM	HDPE DWC SN8		370	524			894
4	315 MM	HDPE PE-100/PN-6			88	72	597	757
5	400 MM	RCC NP-4		62				62
6	400 MM	HDPE PE-100/PN-6			73	61		134
Total			7149	10685	2868	930	746	22378

Zone-4

S. No.	Sewer Dia	Type of Pipe	Depth wise Sewer Network Length (m)						Total Length (m)
			up to 1.5 m	1.5 -3.0 m	3.0 - 4.5 m	4.5 - 6.0 m	6.0 - 7.5 m	7.5 - 9.0 m	
1	200 MM	HDPE DWC SN8	2856	5279	665				8800
2	250 MM	HDPE PE-100/PN-6			446	768	256	172	1642
Total			2856	5279	1111	768	256	172	10442

Zoner-5

S. No.	Sewer Dia	Type of Pipe	Depth wise Sewer Network Length (m)							Total Length (m)
			up to 1.5 m	1.5 - 3.0 m	3.0 - 4.5 m	4.5 - 6.0 m	6.0 - 7.5 m	7.5 - 9.0 m	9.0 - 10.5 m	
1	200 MM	HDPE DWC SN8	1217	3003	522					4742
2	250 MM	HDPE PE-100/PN-6			440	373	194	145	67	1219
3	250 MM	HDPE DWC SN8		132	79					211
Total			1217	3135	1041	373	194	145	67	6172

Zone-6

S. No.	Sewer Dia	Type of Pipe	Depth wise Sewer Network Length (m)			Total Length (m)
			up to 1.5 m	1.5 - 3.0 m	3.0 - 4.5 m	
1	200 MM	HDPE DWC SN8	2968	3908	412	7288
2	250 MM	HDPE PE-100/PN-6			228	228
Total			2968	3908	640	7516

Zone-7

S. No.	Sewer Dia	Type of Pipe	Depth wise Sewer Network Length (m)					Total Length (m)
			up to 1.5 m	1.5 - 3.0 m	3.0 - 4.5 m	4.5 - 6.0 m	6.0 - 7.5 m	
1	200 MM	HDPE DWC SN8	1897	2775	563			5235
2	250 MM	HDPE PE-100/PN-6			539	248	161	948
3	315 MM	HDPE PE-100/PN-6			312	159		471
Total			1897	2775	1414	407	161	6654

Zone-8

S. No.	Sewer Dia	Type of Pipe	Depth wise Sewer Network Length (m)								Total Length (m)
			up to 1.5 m	1.5 - 3.0 m	3.0 - 4.5 m	4.5 - 6.0 m	6.0 - 7.5 m	9.0 - 10.5 m	10.5 - 12.0 m	12.0 - 13.5 m	
1	200 MM	HDPE DWC SN8	5433	9502	1191						16126
2	250 MM	HDPE PE-100/PN-6			998	295	113				1406
3	315 MM	HDPE PE-100/PN-6				511	243				754

4	350 MM	RCC NP-4		650							650
5	400 MM	HDPE PE- 100/PN- 6					40	102	331	29	502
Total			5433	10152	2189	806	396	102	331	29	19438

Zone-9

S. No.	Sewer Dia	Type of Pipe	Depth wise Sewer Network Length (m)			Total Length (m)
			up to 1.5 m	1.5 -3.0 m	3.0 - 4.5 m	
1	200 MM	HDPE DWC SN8	1111	559		1670
2	350 MM	RCC NP-4		1086	144	1230
3	400 MM	HDPE PE- 100/PN-6			188	188
4	1200 MM	RCC NP-4		500		500
Total			1111	2145	332	3588

Source: Preliminary Design Report.

Appendix 3 – Summary of Public Consultations

Consolidated Summary of Consultations

S. No	Number of Person consulted	Male	Female	Key topics and issues discussed	Outcome
1	65	40	25	• Present wastewater disposal system of the town • Subproject components and sewerage system • Property connection • Willingness to pay	The community in general was satisfied with the components identified and assured required support. The people shared that they are willing to pay for the improved services.

Details of Consultations

S. No	Date	Name of Persons	Location	Topic Discussed	Outcome	Photos
1	02.08.2018	Nagar Palika, J.En	Nagar Palika Office	• Proposed Sewage Work • Grievance Redress Mechanism for resolving grievances • Land issues for proposed works	Key topics were relayed. Land to be utilized for the subproject was discussed.	
2	03.08.2018	Chairman, Nagar Palika	Chairman Resident	• Work proposed by RUIDP • Quality and status of Sewage • GRC Mechanism for resolving Grievances Land issues for proposed works	Information about the vacant and available for the above works was discussed Nagar Palika will extend all support for execution of the project.	

Furthermore, consultation with the local public as well as shop owners was held, and information was disseminated about project work. The benefits of the subproject were discussed and support was requested for smooth execution of sewer works. Focus group discussion and small group meetings with women groups were facilitated. The participants expressed that they are ready to cooperate for smooth execution of works. Health and hygiene issues were also discussed.



Consultation with stakeholders in Ward no. 14



Consultation with stakeholders in Ward no. 40
(Railway Station)



Consultation with stakeholders in Ward no. 28



Consultation with women in Ward no. 1



Consultation with Women in Ward no. 9

Consultation Sheet

Topic Discussed: (गौ. भाजीपु) मंडराना Date: 03-08-2018

परियोजना के बारे में समुदाय को जानकारी दी गई एवं उनके द्वारा वर्तमान व्यवस्था पर विचार कर अकांत हुए।
पानी की समस्या एवं सीवरों समस्या से अकांत हुए।

S.No	Name	Father name	Occupation	Signature
1	यास्मीन बानो	मे. रेयाज	-	यास्मीन
2	आबीदा बी	अबुल कादिर	-	आबीदा
3	कलसुम	अबुल सहाय	-	कलसुम
4	फरमाना	मे. हुसैन	-	फरमाना
5	यास्मीन	अबुल खासीद	-	यास्मीन
6	अफसाना	साहदात अली	-	अफसाना
7	नाजमा	अबुल हमीद	-	नाजमा
8	फेमिदा अनवर	अनवर बी	-	फेमिदा
9	अबुल सलाम	अल्लाह खात्री	9252073875	अबुल सलाम

TRANSCRIPT

LOCATION: WARD NO. 28			
DATE - 03.08.2018			
Key topics discussed - present status of water supply and sewerage system and works proposed under phase-4 and its advantages			
S.NO	NAME	FATHERS NAME	SIGNATURE
1	Yasmin bano	MD. Reyaj	
2	Abida	Abdul Kadir	
3	Kalsum	Abdul Sahai	
4	Farmana	MD. Hussain	
5	Yasmin	Abdul Khalik	
6	Afsana	Sahadat Ali	
7	Najma	Abdul Hamid	
8	Femida Anwar	Anwar	
9	Abdul Salam	Allah Khatri	

Location - 29 - महुराजी Date - 03.08.2018

Topic Discussed - परियोजना के बारे में समूहों की जानकारी की गई एवं उनके द्वारा परियोजना पर विचार कर अवगत हुआ।

S.No	Name	Father name	Occupation	Signature
1	लाहीरा बानो	मो० अयूब	गादीगा	—
2	मेहरननीरा	अब्दुल खलीद	मेहरननीरा	—
3	रेहाना	इस्लामुद्दीन	रीयाना	—
4	वाहीदुत	शकील अहमद	चंदीदुत	—
5	नसीम	अब्दुल रजाक	नसीम	—
6	फीरदोरा	समसीद	फीरदोरा	—
7	समीन	निशार सेक	समीन	—
8	सुफीया	साहीद अक़्तर	सुफीया	—
9	हिना	सहीस रहीस	हिना	—
10	अफसाना	सलीम	सलीम	—

TRANSCRIPT

LOCATION-WARD NO.29			
DATE - 03.08.2018			
Key topics discussed - present status of water supply and sewerage system and works proposed under phase-4 and its advantages			
S.No	Name	Fathers Name	Signature
1	Lahirabano	MD.Ayub	
2	Mehrannisa	Abdul Khalid	
3	Rehana	Islamuddin	
4	Wahidutt	Sakil Ahmad	
5	Nasim	Abdul Razak	
6	Firdora	Samsid	
7	Samin	Nissarsekh	
8	Sufia	Sahid Akhtar	
9	Heena	Rahis	
10	Afsana	Salim	

Public Consultation in Makrana dated 28/12/2018

S.No	Name of Persons	Location	Topic Discussed	Outcome
1	Rupnarayan Malakar, Chandra Prakash Saini, Shakti Singh, Ranjeet Singh, Ummed Singh & Jalim Singh	STP within existing STP campus	Awareness of the project—including Project Coverage area, Present condition of Sewerage in the town Presence of historical/cultural/ religious sites nearby. Unfavorable climatic condition Present solid waste collection and disposal problem Requirement of enhancement of other facilities Willingness to pay for improved services	Some people are aware of the proposed Project. People are concerned about the poor sewerage conditions in the area/town. There are not any historical/cultural and religious sites in nearby the subproject area. Solid waste collection facility is poor in this area. The contractor should take care of the safety arrangement during construction phase and should provide traffic diversion routes to avoid the vehicle congestion. People are interested to pay for improved services in the town.
2	Thakur Chandraveer Singh, Hema Ram, Chouthu ram, Sona Ram, Bhawani, Mohammad Taleem, Mohammad Liyakat, Abdul Kayuum, Chand, Mohammad Hussain & Mohammad Firoz	SPS & Sewer laying network near Shetla Mata Seva Samiti (Matabhar Road)	Awareness of the project—including Project Coverage area, Present condition of Sewerage In what way they may associate with the project Presence of historical/cultural/ religious sites nearby. Drainage and sewerage problem facing Present drinking water problem-quantity and quality Willingness to pay for improved services	Some people are aware of the proposed Project. People are concerned about the poor sewerage conditions in the area. They want to engage with the project as a job opportunity and want to become beneficiaries. There are not any historical/cultural and religious sites in nearby the subproject area. People are concerned about the poor supply (intermittent supply on alternate days) and quality of water. Water supply is erratic. People demand 24x7 supply connections to be provided to their area under the proposed.

S.No	Name of Persons	Location	Topic Discussed	Outcome
				They are willing to pay for getting regular potable water.
3	Sona, Yogendra, Poonam, Kanaram, Poonam Chand Jangid, Bhanwar Lal Sharma, Hari Ram, Kalu Ram, Kishore Singh, Kheta Ram, Amar Chand, Pooran, Mohd. Salim & Birma Ram	SPS & Sewer laying Network near Jhalra Pond	Awareness of the project-including Project Coverage area, Present condition of Sewerage In what way they may associate with the project Presence of historical/ cultural/ religious sites nearby. Drainage and sewerage problem facing Present solid waste collection and disposal problem Willingness to pay for improved services	People are aware about the subproject proposed in the town. People are concerned about the poor sewerage conditions. They want to engage with the project as a job opportunity and want to become beneficiaries. No historical/ cultural religious sites nearby the subproject area. Drainage and Sewerage are major problems in this area. These should be sort out immediately. By the proposed project sewerage in the town, People are interested to pay for improved services in the town.
4	Abdul Salam, Abdul Hameed, Mahboob Ali, Chhotu, Abdul Sattar, Nawab Ali, Fayaz Ahmed, Abdul Gaffar & Shabbir Ahmed	Sewer laying Network at Adarsh Nagar	Awareness of the project-including Project Coverage area, Present condition of Sewerage in the town. Presence of historical/ cultural/ religious sites nearby. Present solid waste collection and disposal problem Availability of Labour during construction time Willingness to pay for improved services	People are aware about the subproject proposed in the town. People are concerned about the poor sewerage conditions. Sewage flow in open drains and cause nuisance and vector borne diseases. There are no such environmental sensitive components nearby the project. No historical/ cultural religious sites nearby the subproject area. Sufficient labour is available in nearby communities. People requested to engage the

S.No	Name of Persons	Location	Topic Discussed	Outcome
				local people during construction phase. Peoples are interested to pay for improved services.

Photographs of Public Consultations in Makrana Town held on 28 December 2018



SPS near Sheetla Mata Seva Samiti (Matabhar Road)



SPS near Jhalra Pond, Makrana



**Sewer laying Network, Adarsh Nagar, Makrana
Makrana**



**Sewer laying Network at Mali Mohalla,
Makrana**

Attendance Sheet- Makrana 28 December 2018

Project - Sewerage Component - STP within existing STP Campus

Date - 28/12/2018 Town - Makrana

F. List of Participants (in Identifiable Manner)

S No	Name	Age	Sex (M/F)	Occupation	Ward No. belonging to	Signature/ RTI
1.	Rup Narayan Malhotra	35	M	Aggr.	In front of Balaji	
2.	Chandra Prakash Saini	41	M	do	do	
3.	Shakti Singh ji	40	M	Mines Bunk.	26	
4.	Ranjit Singh	40	M	do	In front of Balaji	
5.	Unmed Singh	35	M	Aggr.	do	
6.	Talim Singh	61	M	do	do	
7.	Katka					

9414289641

Project - Sewerage Component - SPS near Thakra Pond & Sewerline network

Date - 28/12/2018 Town - Makrana

F. List of Participants (in Identifiable Manner)

S No	Name	Age	Sex (M/F)	Occupation	Ward No. belonging to	Signature/ RTI
1.	Sona	35	F	Temple (Rig)	7	
2.	Jogendra	45	M	Water Supply	7	
3.	Poonam	25	M	Labour	7	
4.	Kana Ram	50	M	Driver	7	
5.	Poonam Chand Jagid	48	M	Engg. workshop	6	
6.	Bhanwar Lal Sharma	52	M	shop Kikar	7	
7.	Hari Ram	60	M	Mines work	7	
8.	Kalu Ram	55	M	Labour	7	
9.	Kishore Singh	55	M	Marble Bunk.	7	
10.	Kheta Ram	45	M	Labour	7	
11.	Anand Chand	40	M	Water Supply	7	
12.	Poonam	40	M	Carpenter	7	
13.	Mohd. Salim	50	M	Marble work	7	
14.	Birna Ram	50	M	Labour	7	
15.	Jagdish ji	50	M	Contractor	7	

9024225701

9928564410

8094672915

7737745913

9414071003

Project-Sewerage

Component- Sewer laying Network
at Adarsh Nagar

Date- 28/12/2018

Town- Makrana

F. List of Participants(in Identifiable Manner)

S No	Name	Age	Sex (M/F)	Occupation	Ward No. belonging to	Signature/ RTI
9460162072	1. Abdul Salam	72	M	Shop	Adarsh Nagar	Abd. Salam
	2. Abdul Hameed	63	M	Welding works	do	Abdul Hameed
	3. Mahboob Ali	50	M	Handi Craft	do	Mahboob Ali
	4. Chhotu ji	50	M	Welding works	do	Chhotu ji
	5. Abdul Sattar	23	M	Kirana shop	do	Abdul Sattar
9214678749	6. Nawab Ali	48	M	Marble works	do	Nawab Ali
	7. Fayaz Ahmed	36	M	Labour	do	Fayaz Ahmed
	8. Abdul Gaffar	35	M	Labour	do	Abd. Gaffar
	9. Shahbaz Ahmed	60	M	Marble works	Adarsh Nagar	Shahbaz Ahmed

Project-Sewerage

Component- Sewer laying
Network at
Mali Mohalla

Dr.- 28/12/2018

Town- Makrana

F. List of Participants(in Identifiable Manner)

S No	Name	Age	Sex (M/F)	Occupation	Ward No. belonging to	Signature/ RTI
7568863899	1. Subhash Agarwal	29	M	Business	19	Subhash Agarwal
	2. Prem Chand Mali	38	M	Carpenter	19	Prem Chand Mali
9460544843	3. Om Prakash Agarwal	58	M	Shop	19	Om Prakash Agarwal
	4. Santosh Agarwal	20	M	Business	19	Santosh Agarwal
	5. Kishor Mal Saini	58	M	Driver	19	Kishor Mal Saini
	6. Vishal Saini	19	M	Student	19	Vishal Saini
	7. Rohit Saini	21	M	do	19	Rohit Saini
	8. Laxman	57	M	do	19	Laxman
	9. Bhanwar Lal	70	M	do	19	Bhanwar Lal
	10. Sanjay Saini	18	M	Student	19	Sanjay Saini
	11. Mahaveer Prasad	28	M	Pvt. Job	19	Mahaveer Prasad
9461315129	12. Jeet Mal Saini	40	M	Marble Handicraft	19	Jeet Mal Saini

Appendix 3(a): Minutes of City Level Committee meeting



Office of the Executive Engineer

Rajasthan Urban Sector Development Investment Programs

IPIU, Shastri Bhawan, 2/66-67 J.N Vyas Colony, Nagaur

Phone:- 01582-244280

ipiu.ngr@rediffmail.com

No.E.E./NGR/2017-18) 299

Date: 26/03/2018

Minutes of City Level Committee meeting held on 21.03.2018 under chairmanship of District Collector, Nagaur for finalization of works of water supply in Kuchaman city & sewerage works in Ladnun, Makrana, Kuchaman city & Deedwana towns under RUIDP Phase-IV

City Level Committee meeting was held on 21.03.2018 under chairmanship of District Collector, Nagaur for finalization of works of water supply in Kuchaman city & sewerage works in Ladnun, Makrana, Kuchaman city & Deedwana towns under RUIDP Phase-IV. Additional Collector, Nagaur presided the meeting on behalf of District Collector, Nagaur.

List of Officials, public representative & stock holders, who attended the meeting, is enclosed at Annexure 'A'.

It was initially briefed out that RUIDP will take up water supply works in Kuchaman city and sewerage works in Ladnun, Kuchaman city, Makrana & Deedwana towns under Phase-IV under ADB assistance. Water supply works in other towns (Ladnun/ Makrana & Deedwana) has already been sanctioned/ taken up by PHED.

Important provisions considered in water supply/ sewerage works in towns were informed to all Stock-holders as below:

General Provision:

- Full coverage of town under municipal boundary.
- Digitization of all assets on GIS map.
- Road restoration in full width of up to 4 M wide road.
- Operation & maintenance for 10 years under the contract.
- Performance based management contract.
- O & M charges during 10 years O & M period will be borne by concerned line agency

Water Supply Works:

- Continuous pressurized water supply.
- Single combined contract of water supply & sewerage works to have better execution planning of water supply/ sewerage works to avoid repeated damage of roads.
- Reduction in Non-Revenue Water (NRW) on DMA based approach.
- SCADA for fully centralized control for operation and monitoring of water production & distribution.
- 100% metered water connection.

Sewerage Works :

- 80% of water supply is considered as sewage generation.
- Sewerage in Makrana & Deedwana towns has partly been covered under 7 town projects. Remaining sewerage works to cover the uncovered



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ipiu.ngr@rediffmail.com

No.E.E./NGR/2017-18 (393)

Date: 26/03/2018

portion with integration of existing system and new STPs for balance capacity have been taken up in these towns.

- Installation of sensors in manholes to detect overflow of manholes.
- Provisions of trenchless method for laying of pipe lines for deep sewers/ road crossings/ busy road etc for safety reasons and to minimize inconvenience to public.
- House sewer connection inside house property included in the contract for fully utilization of assets.
- Provision of Over Head Reservoir (OHSR) for reuse of treated effluent in agriculture etc.
- 33% charges of water bills as sewerage charges to be collected by concerned ULB.
- Revenue of ULB through sale of treated effluent and collection of sewerage charges for self-sustainability.

Power Point Presentation of scope of works considered in the DPRs of water supply/ sewerage works with tentative cost of project in the towns were made. It was also informed that land for proposed head-works/ Pumping stations/ STPs have been made available.

During presentation, following suggestions/ comments were received as below:

Kuchaman City :

Chairman/ EO, Kuchaman informed, there is large number of institutions in the town and so large number of students are studying in the town; which is not included in the population census and therefore, there is need to consider for institutional water demand.

EO, Kuchaman was requested to provide the details of institutional population so that it may be considered in the proposal.

Ladnun :

MLA, Ladnun requested to take up water supply works also by RUIDP in place of PHED in single combined contract.

It was briefed out in the meeting that PHED has already sanctioned the works in the town and accordingly, RUIDP has not taken up water supply works in the town.

Makrana :

EO, Makrana informed that there is some old sewer line system laid about 15 years before; which is in damaged/ bad condition and need replacement and O&M of this old laid system should be integrated in this DPR.

3



Office of the Executive Engineer
Rajasthan Urban Sector Development Investment Programs

IPIU, Shastri Bhawan, 2/66-67 J.N Vyas Colony, Nagaur

Phone:- 01582-244280

ipiu.ngr@rediffmail.com

No.E.E./NGR/2017-18 / 399

Date: 26/03/2018

It was assured that assessment of condition of old laid system will be carried out and accordingly, proposal for repair/ replacement with integration to existing system will be taken in this DPR.

EO, Makrana informed that Gram Panchayats are adjoining to the town and proposal to include these in the municipal limit is under consideration/ process.

It was informed that ULB may inform the population of each in writing so that flow may be included in the system design but sewerage network may only be executed after inclusion in the municipal area; which may also be taken up during execution of work.

Deedwana :

SE, PWD, Deedwana requested to lay sewer line on both side of 4-lane road/ highway.

It was informed that main sewer line will be laid on one side and lateral sewer line shall be laid on the other side of road; which may be connected with Main sewer line at crossings to avoid cross cutting of road for house property pipe lines.

Meeting ended with vote of thanks to the chair

Executive Engineer
(Member Secretary)
RUIDP, IPIU Nagaur
 Date: 26/03/2018

No. E.E./NGR/2017-18 / 400-420

Copy to following for information and necessary action please:

1. Hon'ble Member of Parliament, Nagaur
2. Hon'ble MLA, Ladnun/ Kuchaman/ Makrana/ Deedwana
3. PA to Project Director, RUIDP, Jaipur
4. PA to District Collector, Nagaur
5. Chairman, Municipal Council/ Board, Ladnun/ Kuchaman/ Makrana/ Deedwana
6. Superintending Engineer, PHED, Circle Nagaur
7. Superintending Engineer, PWD, Circle Nagaur/ Deedwana
8. Superintending Engineer, WRD, Circle Merta City
9. EO, Municipal Council/ Board, Ladnun/ Kuchaman/ Makrana/ Deedwana
10. Town Planner, Nagaur
11. Consultant M/s Exceltech, Jaipur

Executive Engineer,
RUIDP, IPIU Nagaur

Annexure (A)

City Level Committee Meeting for DPR of Water Supply/ Sewerage Works in Makrana/
Kuchaman/ Ladnun/ Dildwana towns of Nagaur District under RUIDP Phase-IV

Date: 21/03/2018

Attendance Sheet

S. No.	Name	Designation & Department	Contact No.	Signature
1.				
2.	Ashok Kumar	ADM		SL
3.	Smt. Azeez	Chairman Nagar Palika Makrana	9829078306	SL
4.	Rakeshyam Gahar	Chairman Nagar Palika Kuchaman	9414484652	SL
5.	Jitendra Kr. Meena	Nagar Palika Dildwana	9460133581	SL
6.	M. R. D.	MLA, Ladnun	9414313190	SL
7.	J.			
8.	Dr. D R Jangiel	SE(WW) RUIDP, JPR	9166002200	SL
9.	Pooveen Anandia	SE (WS), RUIDP, JPR	9414057444	SL
10.	D.K. Mattul	EE, RUIDP NGR	97830079996	SL
11.	Mansingh Meena	JE, RUIDP NGR	9414992211	SL
12.	DINESH CHAUDHARY	Sup. Engr, RUIDP NGR	9414060487	SL
13.	Tofik Ahmed	Executive Officer, Ladnun	9414984174	SL
14.	Ravindra Singh	GA N. PL Ladnun	9982221101	SL
15.	L.R. Panwar	A.E.N. & T.A. Water Resources	9414495498	SL
16.	Devendra Kumar	EE, Ladnun	9414003317	SL

Photograph of City Level Committee Meeting



Appendix 4 – Land Allotment from Nagar Palika for Proposed Sewage Treatment Plant and Two Sewage Pumping Stations - Makrana

RUIDP - ADB	LAND PAPER	DETAILED PROJECT REPORT FOR MAKRANA WASTE WATER SYSTEM
 कार्यालय नगर परिषद, मकराना जिला नागौर Email-npmakrana@gmail.com फोन- 01588-240107, फैक्स :-01588-241380		
क्रमांक :- नपम/निर्माण/2017-18 / 3110		दिनांक :- 10.1-2018
श्रीमान प्रोजेक्टर डायरेक्टर RUIDP, जयपुर।		
विषय:- सीवरेंज परियोजना के लिए 02 पम्पिंग स्टेशन एवं 01 सीवरेंज ट्रीटमेन्ट प्लान्ट हेतु भूमि उपलब्ध कराने बाबत।		
महोदय, उपरोक्त विषय में निवेदन है कि सीवरेंज परियोजना के अन्तर्गत नगर परिषद मकराना द्वारा 02 सीवरेंज पम्पिंग स्टेशन एवं 01 सीवरेंज ट्रीटमेन्ट प्लान्ट हेतु भूमि उपलब्ध करवाई जानी है, जिसका विवरण निम्नानुसार है:-		
1. 01 पम्पिंग स्टेशन हेतु झालरा तालाब पर खसरा नम्बर 743 की भूमि में से 30x30 मीटर। 2. 01 पम्पिंग स्टेशन हेतु खसरा नम्बर 684/146/161 भूमि में से प्रत्येक खसरे में से 30x30 मीटर भूमि। 3. 01 एसटीपी हेतु खसरा नम्बर 661 में 14.19 बीघा भूमि (एसटीपी जहाँ वर्तमान में चल रहा है उसी कैम्पस में प्रस्तावित एसटीपी के लिए 14.19 बीघा जमीन नगर परिषद के पास उपलब्ध है) 4. वर्तमान में स्थापित एसटीपी एवं प्रस्तावित एसटीपी कैम्पस में जो पानी साफ किया जायेगा उस पानी को पुनः उपयोग में लेने हेतु एक उच्च जलाशय का निर्माण उसी कैम्पस में करवाया जाना उचित रहेगा। जिससे की एसटीपी द्वारा साफ पानी को श्रुति कार्य एवं अन्य कार्य हेतु उपलब्ध करवाया जा सकें क्योंकि साफ जल को दूर तक पुनः उपयोग में लिया जा सकेगा।		
उपरोक्त क्षेत्र नगर परिषद मकराना क्षेत्र के अन्तर्गत आता है जिनकी भूमि नगर परिषद मकराना सीवरेंज प्रोजेक्ट के कार्य हेतु उपलब्ध करवा दी जायेगी। भूमि का विवरण जमाबन्दी की नकल व खसरा मैप संलग्न है।		
 (शौकत अली) सभापति नगर परिषद मकराना	 (अनिल जाटव) आयुक्त नगर परिषद, मकराना	
885 Executive Engineer and Projects Pvt Ltd, Jaipur Surachh Sharmat Mission VOL 0005 ANNEXURE जल स्वच्छता अभियान		

Transcript

To,

Project Director, RUID Jaipur

Sub- Allotment of Land for the STP and 2 SPS under Sewage project.

Sir,

With the above cited subject, Nagar Palika, Makrana have to provide land for the STP and 2 SPS under Sewage project.

1. 30*30 meter under Khasra no.743 for SPS near Jhalra Pond

2. 30*30 meter under Khasra no.684/146/161 for second SPS

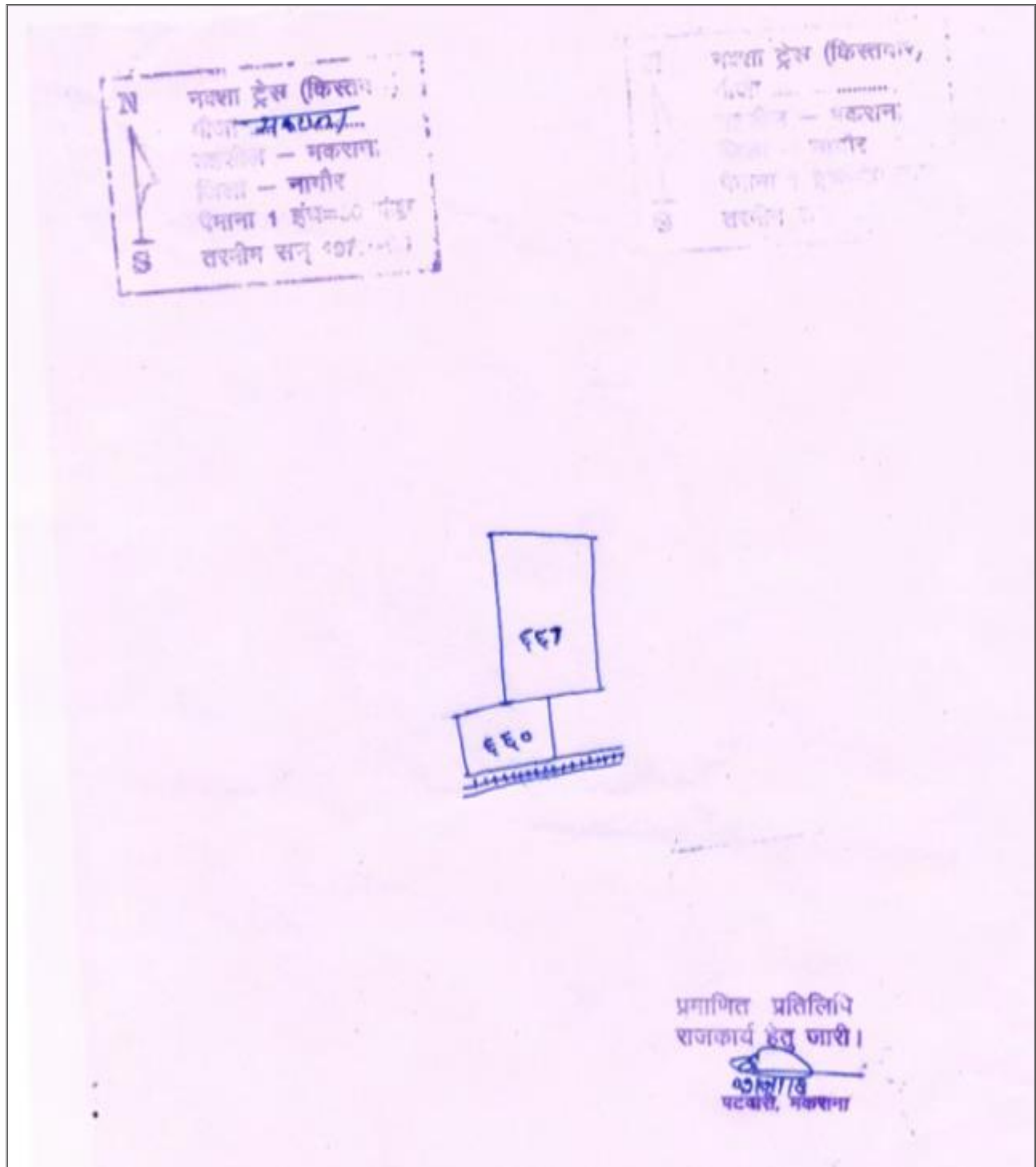
3. 14.19 bigha land of Nagar Palika is available in the STP existing campus, for construction of STP under this project. For the disposal of effluent, Overhead tanks will be constructed in the same campus and treated water can be used for agriculture purpose.

The above areas are under the jurisdiction of Makrana Nagar Palika and land shall be allotted for sewerage works.

Saukat Ali,
 Chairman, Nagar Parishad

Anil Jatav, for Commissioner, Nagar Parishad

Appendix 5 – Khasra Map of proposed Sewage Treatment Plant land, Makrana



Appendix 5(a) – Revenue records of proposed Sewage Treatment Plant land, Makrana


जमाबन्दी (खेजूर/खतोनी) (प्रतिलिपि)

प्रपत्र पी-26(बी)
 (देखिये नियम 153 ए)
 पृष्ठ संख्या :- 1 of 1

ग्राम का नाम :- मकराना
 पटवार हल्का :- मकराना
 भू.अभि.नि.क्षेत्र :- मकराना
 तहसील :- मकराना
 जिला :- नागौर

सम्बत :- 2070 - 2073
 भूमि धारक का नाम :- राज.सरकार
 क्षेत्रफल की ईकाई :- बीघा-विस्वा
 खाता संख्या नया :- 1158
 खाता संख्या पुराना :- 706

काश्तकार का नाम/पिता का नाम
 जाति निवास के पते सहित :-

खसरा संख्या	क्षेत्रफल	भूमि वर्गीकरण	कृषक द्वारा संवत्त जमान	सिंचाई के साधन	अन्तरण के क्रम में प्रमाणित मामान्तरकरण संख्या व दिनांक	रिण्यणी
661	14-19	बा.2(+)	14-19	9.34		
कुल	1	14-19	14-19	9.34		
खसरे -						

यह प्रपत्र केवल ग्रामी की जानकारी के लिये है।
 इसका उपयोग किसी भी न्यायालय में साक्ष्य के रूप में नहीं किया जा सकता है।
 प्रतिलिपि जारी करने की तिथि :- 10/01/2018
 नामान्तरकरण अद्यतन दिनांक:- 19/09/2017



प्रमाणित प्रतिलिपि
 राजकार्य हेतु जारी।

 पटवारी, मकराना

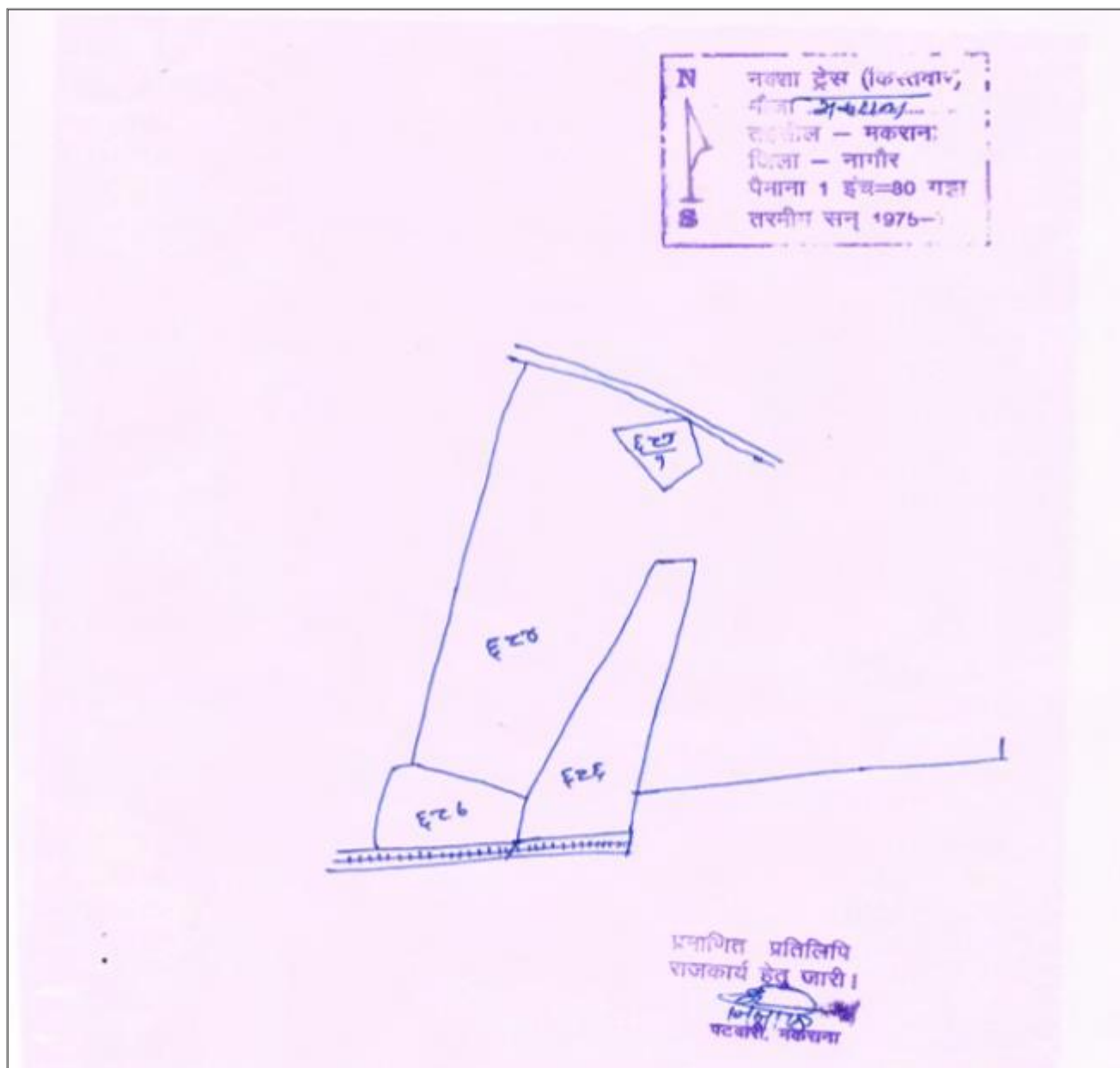
Transcript**Land Details**

Name of Village	Makrana
Tahsil	Makrana
District	Nagaur
Landowners name	State Government
Unit of Measurement	Bigha
Present ownership	Nagar Palika
Khata no. (new)	1158
Khasra No.	661
Area (In bigha)	14-19

Appendix 5(b) – Google Earth Map of proposed Sewage Treatment Plant Site - Borawar Road



Appendix 6 – Khasra Map of proposed Sewage Pumping Station Land- Jhalra Pond



Appendix 6(a): Revenue records of proposed Sewage Pumping Station Land - Jhalra Pond

प्रपत्र पी-26(बी)
 (रेविन्यू विधम 153 ए)
 पृष्ठ संख्या :- 1 of 1

जमाबन्दी (खेतर/खतोनी) (प्रतिलिपि)

ग्राम का नाम :- मकराना
 पटवार हल्का :- मकराना
 भू.अभि.वि.क्षेत्र :- मकराना
 तहसील :- मकराना
 जिला :- नागौर

काश्तकार का नाम/पिता का नाम
 जाति निवास के पते सहित :-

सम्बत :- 2070 - 2073
 भूमि धारक का नाम :- राज.सरकार
 क्षेत्रफल की ईकाई :- बीघा-बिस्वा
 खाता संख्या नया :- 1156
 खाता संख्या पुराना :- 1

नगर पालिका मण्डल मकराना, सिवायचक खसरान
 (हस्तान्तरित भूमि) नामा. 4523

खसरा संख्या	क्षेत्रफल	भूमि वर्गीकरण	क्षेत्रफल द्वारा संयुक्त लगान	सिंचाई के साधन	अन्तरण के रूप में प्रमाणित नामान्तरकरण संख्या व दिनांक	टिप्पणी
79	1-04	रै.मु.बाड़ा	1-04	0.00		
80	4-17	रै.मु.बाड़ा	4-17	0.00		
81	2-17	रै.मु.बाड़ा	2-17	0.00		
173	9-09	रै.मु.जवाहीरी	9-09	0.00		
591	1-09	बाराणी 2	1-09	0.82		
593	2-11	बाराणी 2	2-11	1.43		
604/3	6-01	बा.2(+)	6-01	3.78		
635	12-07	रै.मु.जवाहीरी	12-07	0.00		
641	550-18	रै.मु.जवाहीरी	550-18	0.00		
684	67-04	बा.2(+)	67-04	42.00		
725	314-05	रै.मु.जवाहीरी	314-05	0.00		
746/1	1-14	बाराणी 2	1-14	0.96		
कुल	12	974-16	974-16	48.99		
खसरे -						

यह प्रपत्र केवल ग्रामी की जानकारी के लिये है।
 इसका उपयोग किसी भी न्यायालय में साक्ष्य के रूप में नहीं किया जा सकता है।
 प्रतिलिपि जारी करने की तिथि :- 10/01/2018
 नामान्तरकरण अद्यतन दिनांक :- 19/09/2017

प्रमाणित प्रतिलिपि
 राजकार्य हेतु जारी।

 पटवार, मकराना



Transcript

	Land Details
Name of Village	Makrana
Tahsil	Makrana
District	Nagaur
Land Owners Name	State Government
Unit of Measurement	Bigha
Present ownership	Nagar Palika
Khata No. (New)	1156
Khasra No.	684
Area (In bigha)	67-04

Appendix 6 (b): Google Earth Map of proposed Sewage Pumping Station site - near Jhalra Pond



Appendix 7 – Khasra Map of proposed Sewage Pumping Station Land - Sheetla Mata



Appendix 7(a): Revenue records of proposed land for Sewage Pumping Station- Sheetla Mata



जमाबन्दी (खेजड/बतोनी) (प्रतिलिपि)

प्रपत्र पी-26(बी)
 (रिजिस्ट्रेशन नियम 153 ए)
 पृष्ठ संख्या :- 1 of 1

ग्राम का नाम :- मकराना
 पटवार हल्का :- मकराना
 भू.अभि.नि.क्षेत्र :- मकराना
 तहसील :- मकराना
 जिला :- नागौर

काश्तकार का नाम/पिता का नाम
 जाति निवास के पते सहित :-

सम्बत :- 2070 - 2073
 भूमि धारक का नाम :- राज.सरकार
 क्षेत्रफल की ईकाई :- बीघा-बिस्वा
 खाता संख्या नया :- 1159
 खाता संख्या पुराना :- 1076

निगरानी ग्राम पंचायत जूसरी (चरागाह एवं सामान्य
 काम हेतु) नामा.स. 4675

खसरा संख्या	क्षेत्रफल	भूमि वर्गीकरण	कृषक द्वारा संदत्त लगान	सिंचाई के साधन	अन्तरण के क्रम में प्रमाणित नामान्तरकरण संख्या व दिनांक	टिप्पणी
354	6-01	सै.मु.गोबर	6-01	0.00	* नामा. स. 4744 - नि.वि. 20/09/2013 - आरंभ	
404	6-08	सै.मु.गोबर	6-08	0.00	आदेश के द्वारा ख.न. 776 रकबा 46.19 बीघा किस्म	
427	9-18	सै.मु.गोबर	9-18	0.00	गोबर मे से ख.न. 776/2 रकबा 22.00 बीघा किस्म खेत	
432	1-02	सै.मु.गोबर	1-02	0.00	संयुक्त (स्टेडियम) राजस्थान सरकार, जिला खेल परिषद	
432/2	7-16	सै.मु.गोबर	7-16	0.00	नागौर, के नाम 99 वर्गीय आरंभ आदेश दिनांक	
743	21-19	सै.मु.गोबर	21-19	0.00	29.08.2013 द्वारा दर्ज किया गया। ख.न. 776 रकबा	
776	46-19	सै.मु.गोबर	46-19	0.00	24.19 बीघा किस्म गोबर बदस्तूर रहा।	
कुल	7	100-03	100-03	0.00		

खसरे -

* वर्तनी सुद्धि हेतु उक्त नामान्तरण ऑफ प्रक्रिया में है।
 यह प्रपत्र केवल शर्ती की जानकारी के लिये है।
 इसका उपयोग किसी भी न्यायालय में साक्ष्य के रूप में नहीं किया जा सकता है।
 प्रतिलिपि जारी करने की तिथि :- 10/01/2018
 नामान्तरकरण अद्यतन दिनांक:- 19/09/2017


 प्रमाणित प्रतिलिपि
 सारवाधिक्य हेतु जारी।
 10/01/18
 पटवार, मकराना



Transcript

Land Details	
Name of Village	Makrana
Tahsil	Makrana
District	Nagaur
Land Owners Name	State Government
Unit of Measurement	Bigha
Present ownership	The proposed land for SPS is under the ownership of Gram Panchayat Jasuri. The Commissioner of Makrana municipality has requested for land conversion to the District Collector. NOC from Gram Panchayat will be obtained prior to contract award.

Khata no. (new)	1159
Khasra No.	743
Area	21-19

Appendix 7(b): Letter of Commissioner to District Collector for land transfer for Sewage Pumping Station

 **कार्यालय नगर परिषद, मकराना नागौर (राज०)**
Email: nrmakrana@gmail.com फोन - 01588-240107, फैक्स 241380

क्रमांक-वपन/विधि/2019-20/16/6 दिनांक-24.07-19

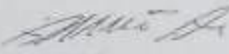
श्रीमान जिला कलेक्टर,
नागौर।

विषय :- मकराना सीवरेंज परियोजना(RUIDP-4) के अन्तर्गत SPS हेतु खसरा नम्बर 743
किस्म गोघर रकबा 21.19 हेक्टर तथा खसरा नम्बर 161 किस्म गै.मु.ओरण रकबा 44.
03 हेक्टर मे से 30x30 वर्ग मीटर भूमि किस्म परिवर्तन कर नगर परिषद को
स्थानान्तरण बाबत।

महोदय

उपरोक्त विषयान्तर्गत निवेदन है कि मकराना शहर में सीवरेंज परियोजना के
(RUIDP-4) कार्य होना है जिसके लिए खसरा नं 743 किस्म गोघर एवं खसरा
नम्बर 161 किस्म गै.मु.ओरण के पास पम्पिंग स्टेशन के लिए 30x30 वर्ग मीटर भूमि
प्रति खसरा मे जरूरत है जो कि जमाबन्दी रिकॉर्ड के अनुसार खसरा 161 किस्म
ओरण है तथा खसरा 743 किस्म गोघर है।

अतः श्रीमान जी से निवेदन है कि 30x30 वर्ग मीटर दोनों खसरा से
जमीन की जरूरत है जो कि राज्य सरकार के नाम दर्ज है इसलिए 30x30 वर्ग
मीटर जमीन दोनों खसरा से नगर परिषद मकराना के नाम हस्तान्तरण करने की
कृपा करे। जिससे सीवरेंज परियोजना के Phase IV के कार्य में प्रगति आ सके।

 सधन्यवाद

सभापति
नगर परिषद मकराना
क्रमांक-वपन/विधि/2019-20/16/7
प्रतिलिपि सूचनाई :-
01. श्रीमान परियोजना निदेशक RUIDP जयपुर।

 आयुक्त
नगर परिषद मकराना
दिनांक-24.07-19

 आयुक्त
नगर परिषद मकराना
24-7-19

Transcript

TO, District Collector, Nagaur

Sub-Regarding allotment of 900 m² land under khasra no-743 (pastureland) 161

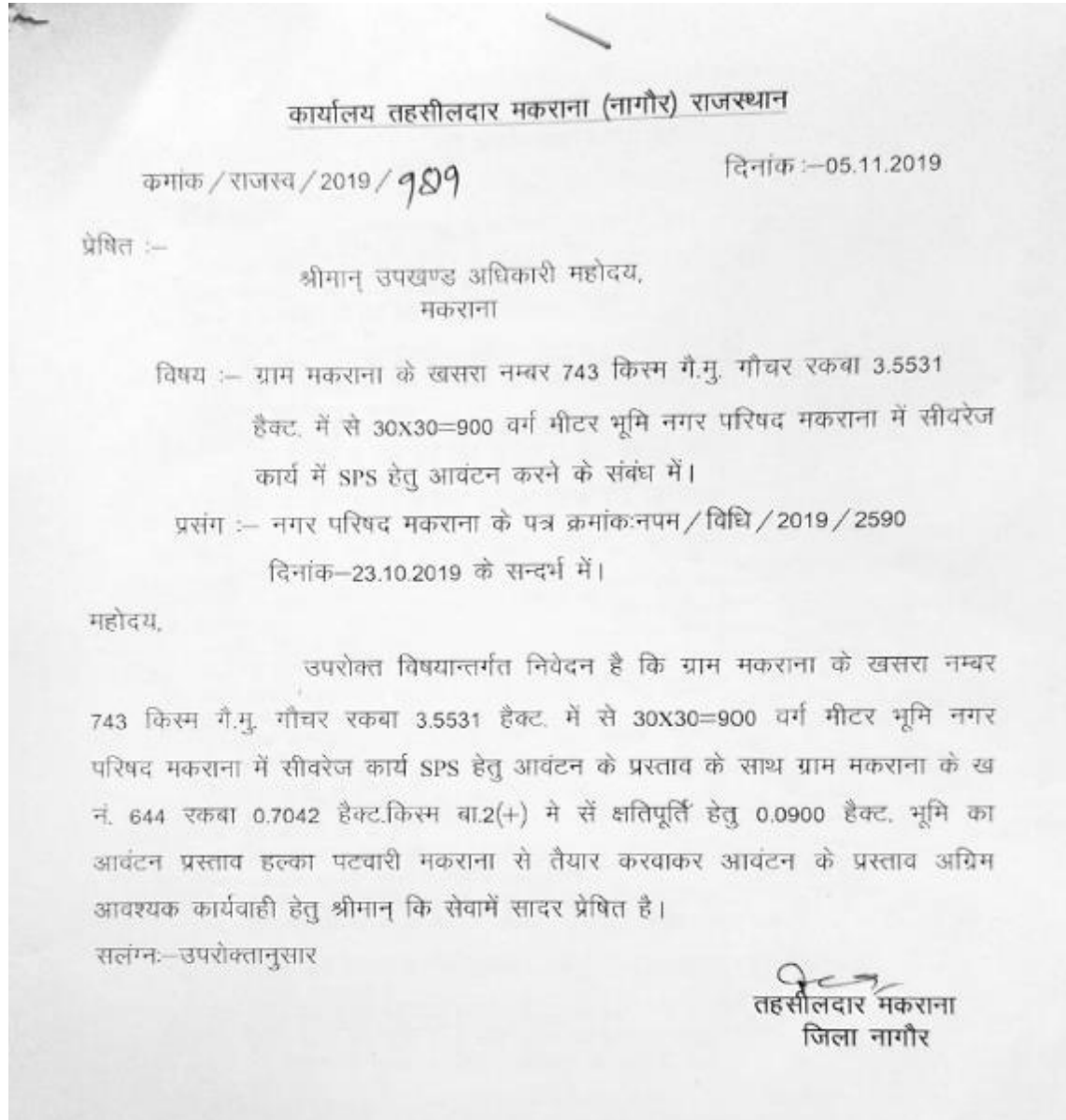
Sir,

With the above cited subject, 900 m² land for SPS under RUIDP Phase-4 is required. Thus, it is requested to allot 900 m² land under khasra no.743 and 161 which are pastureland. Both the lands are government land.

Chairman, Nagar Parishad

Commissioner, Nagar Parishad

Appendix 7(c): Letter of Tehsildar to Sub Divisional Magistrate regarding allotment of Land for Sewage Pumping Station under Khasra no. 743



Transcript

Date: 05.11.2019

To SDM, Makrana,

Sub: Regarding allotment of 900 m² of pasture land (out of 3.5531 hectare under Khasra No. 743) for construction of SPS

Sir,

In reference to the subject cited above, proposal is being submitted for allotment of pasture land measuring 900 m² under Khasra No. 743 (for construction of proposed SPS), along with the proposal for compensatory allotment²⁰ of land (0.0900 Hectare) under Khasra No. 644 (plot area- 0.7042 hectare).

Proposal for land allotment is being submitted for required action.

Tehsildar (Revenue Officer), Makrana

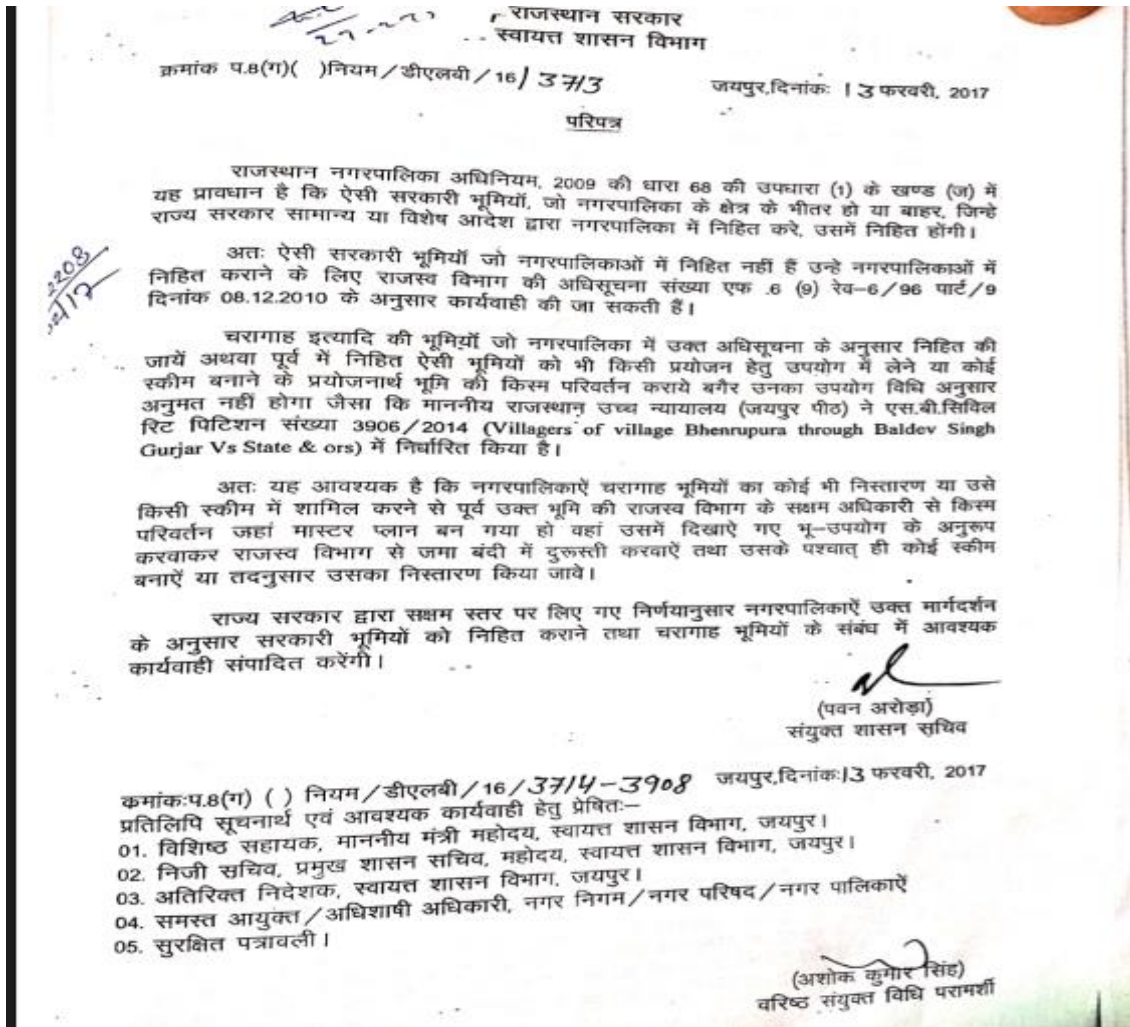
²⁰ As per Rajasthan land reforms act 1963 in case of utilization of pasture land for public purpose equivalent amount of alternate land needs to be allotted and declare the alternate land as pasture land. This letter justifies that in lieu of pasture land measuring 900 m² (under Khasra No. 743) earmarked for construction of SPS (near Sheetla Mata); an equivalent amount of government land under Khasra No. 644 be allotted and declare as pasture land.

Appendix 7(d): Google Earth Map of proposed SPS site- Near Sheetla Mata



Section Break (Next Page)

Appendix 8 – Government of Rajasthan Notification about Pastureland



As per Municipal Act 2009 Section 68 sub section (1) part (J), all lands which are within or outside municipal boundary and for which special order are issued will be vested in municipality. Therefore, for government lands, which are not vested in municipality, may be vested in municipality as per revenue department notification no: F 6(9) rev- 6/96 part/9 dated 08.12.2010.

However, before vesting or before using already vested Charagah (Pasture) land, conversion will be required as per High court (Jaipur Bench) order given writ petition no 3906/2014 (Villagers of Village Bhenrupura through Baldev Singh Gurjar Vs State & Ors)

Therefore, all the municipalities, are directed that before using any pastureland for any project, the land use/type should be converted in revenue record as per applicable master plan and all the revenue records should also be updated and then only pastureland should be utilized under any project.

Appendix 9 – Grievance Registration Format

(to be available in local language)

The _____ Project welcomes complaints, suggestions, queries and comments regarding project implementation.

Aggravated persons may provide grievance with their name and contact information to enable us to get in touch for clarification and feedback.

In case, someone chooses not to include personal details and wants that the information provided to remain confidential, please indicate by writing/typing ***(CONFIDENTIAL)*** above Grievance Format.

Thank you.

Date	Place of registration				
Contact Information/Personal Details					
Name		Gender	* Male *Female	Age	
Home Address					
Place					
Phone no.					
E-mail					
Complaint/Suggestion/Comment/Question Please provide the details (who, what, where and how) of your grievance below: If included as attachment/note/letter, please tick here:					
How do you want us to reach you for feedback or update on your comment/grievance?					

FOR OFFICIAL USE ONLY

Registered by: (Name of Official registering grievance)	
Mode of communication: Note/Letter E-mail Verbal/Telephonic	
Reviewed by: (Names/Positions of Official(s) reviewing grievance)	
Action Taken:	
Whether Action Taken Disclosed:	Yes No
Means of Disclosure:	