

Land Acquisition and Involuntary Resettlement Due Diligence Report

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India: Himachal Pradesh Rural Drinking Water Improvement and Livelihood Project

Package No: MZ02 (Mandi Zone Package-1)

Prepared by Jal Shakti Vibhag, Government of Himachal Pradesh for the Asian Development Bank.

CURRENCY EQUIVALENTS

(as of 10 November 2021)

Currency unit	–	Indian rupee (₹)
₹1.00	=	\$0.0135
\$1.00	=	₹74.164

ABBREVIATIONS

ADB	-	Asian Development Bank
BBMB	-	Bhakra Beas Management Board
DDR	-	due diligence report
DPR	-	Detailed Project Report
EM	-	Entitlement Matrix
GOHP	-	Government of Himachal Pradesh
GP	-	Gram Panchayat
HPPWD	-	Himachal Pradesh Public Works Department
IPH	-	Department of Irrigation and Public Health
JSV	-	Jal Shakti Vibhag
JE	-	Junior Engineer
LWSS	-	Lift Water Supply Scheme
MBR	-	Main Balancing Reservoir
NA	-	Not Available
N/A	-	Not applicable
NOC	-	No objection certificate
NRW	-	Non-Revenue Water
PMU	-	Project Management Unit
PDMSC	-	Project Design, Management and Supervision Consultant
PIU	-	Project Implementation unit
RSF	-	Rapid Sand Filter
PWD	-	Public works department
ROW	-	right-of-way
SSF	-	slow sand filter
SR	-	service reservoir
WSS	-	water supply schemes
WTP	-	water treatment plant

WEIGHTS AND MEASURES

kl	-	kiloliter
km	-	kilometer
l	-	liter
LPCD	-	liter per capita per day
m	-	meter
MLD	-	million liters per day
mm	-	millimeter
m ²	-	square meter

NOTE

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

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I. INTRODUCTION

A. Project Overview

1. The government of “Himachal Pradesh” has accorded top priority to the provision of safe drinking water to the rural areas of the state. The focus in the water supply sector is to cover every household with piped water supply. The existing old rural water supply schemes (commenced before year 2000) were designed to tap water from available local sources and many of them are small water supply schemes which cater few habitations or villages. With passage of time water demand increased due to increase in population and as a result, existing water supply schemes could not match the increased demand. The constant wear and tear, limited maintenance funds and unreliability of various small sources, made these systems more vulnerable. Therefore, Jal Shakti Vibhag (JSV), formerly known as Irrigation and Public Health (IPH) Department of Himachal Pradesh, wants these schemes to be re-modelled/renovated.

2. The Department of Irrigation & Public Health (IPH), Government of Himachal Pradesh (GOHP) was created in the year 1986 and is responsible for providing safe and wholesome water to the people of Himachal Pradesh. Since January 2020, IPH department is renamed as Jal Shakti Vibhag. The project cost for Rural Drinking Water Improvement will be funded by the Asian Development Bank (ADB) and Government of Himachal Pradesh (GOHP) in 80:20 proportion.

3. The project area comprises the rural regions of Himachal Pradesh. The rural water supply schemes of Himachal Pradesh are divided into four zones, namely Shimla, Hamirpur, Mandi and Dharamshala. The zones are divided into circles which get further divided into divisions and sub-divisions. The grids are formed by integrating various small water supply schemes in these sub-divisions according to the geographical continuity of the schemes.

4. At present the schemes are being operated at 40 LPCD with intermittent water supply to the consumers. The water flow largely remains unaccounted due to absence of any water flow monitoring and automation system. This has led to unequal water supply in different areas and inefficiency in the system. The key objectives of the assignment are as below to strengthen the existing network system and provide 100% rural house with piped water supply. (i) To identify reliable & sustainable drinking water source for preparation of schemes. (ii) Establish system for equitable distribution of water as currently some parts of the rural area receive more than 70 LPCD of water whereas some parts receive less than as 70 LPCD. (iii) To ensure all rural households have access to adequate quantity, quality & safe water. (iv) Potable drinking water which meets national drinking water standards, leading to healthy and well-nourished children and adults and improved livelihoods and education. (v) To reduce water borne diseases, water stress and non-revenue water (NRW). (iv) To ensure positive impact on social status and economic standard of the people of rural areas.

5. The proposed components in the project includes (i) Raw water intake facilities like Intake chambers, Head Weirs/ Check dams with sump wells, tube well, Raw Water Pumps; (ii) Water treatment plants with all appurtenances, civil & electro-mechanical works, including Chlorination sludge lagoons, (iii) Water transmission mains such as Rising mains, Gravity mains, Distribution mains; (iv) Clear water pumps to convey water from lower elevation to higher elevation where required (v) Water storage reservoirs such as MBRs, and SR's ; (vi) House service connections with water meters; (vii) Automation is proposed at Sources, WTPs, Pump Houses, MBRs and SRs to bring efficiency in operation and maintenance. The real time quality and quantity of water supplied will be monitored through automation. The provision for solar panels has been considered to support the automation at remote locations; (viii) Operation and maintenance of the

proposed components for a period of five years after commissioning and takeover of the repairing of existing civil structures such as WTPs, pumping stations and reservoirs which are retained in the proposal.

B. Objectives and Scope of this Report

6. The proposed MZ02 (Mandi Zone Package 1) 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, sample survey, 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.

7. This due diligence report covers the proposed subproject components that include (i) construction of fifteen (15) Water treatment Plants of various capacities from 11 KLD to 2600 KLD; (ii) Nine (9) Pump houses; (iii) Ten (10) Main Balance Reservoirs of various capacities ranging from 20 KL to 75 KL; (iv) Forty Six (46) Service Reservoirs of various capacities from 20 KL to 155 KL; (v) house service connection (7,789 units); (vi) electrical and mechanical works; (vii) operation and maintenance of Water Supply system (for 5 years); (viii) Laying of approximately 289 km of water supply pipeline.

8. Due diligence involved field visits, public consultation to inform the public/stakeholders on the subproject components and to ascertain if there are any potential involuntary resettlement impacts. Discussions with concerned government offices for land records, land ownership details and permission and approvals required for the use of land. This was followed by a limited site visits due to COVID-19 pandemic and travel/movement restrictions and protocols.

9. A sample survey of the critical areas was also conducted with the help of Google Earth images and site photographs to ascertain further if there are any potential involuntary resettlement impacts. Site visits, consultations and sample survey were conducted by the team comprising detailed project report (DPR) consultants, social safeguard consultant and staff from concerned project implementation units (PIUs).

10. 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, sample survey 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 involuntary resettlement impacts.

II. DESCRIPTION OF SUBPROJECT AREA

11. The subproject area i.e., District Mandi Package-1 belongs to Mandi zone and consists of rural regions of Mandi district, Himachal Pradesh. MZ02 (District Mandi Package-1) comes under Sunder agar Circle and comprises three (3) divisions viz. Sundarnagar, Mandi, & Karsog divisions. These divisions are further divided into subdivisions. This package is an integration of eight (8) grids, comprising of thirty-three (33) small rural water supply schemes, as shown in Figure 1.

12. The overall status of rural water supply schemes, population served in the commencing year 2022, and ultimate design year 2042 of Mandi zone – Package-1 is shown in Table 1 below:

Table 1: Projected Population and Water Demand

Package	Scheme	Grid ID	District	Circle	Division	Villages (Nos.)	Habitation (Nos.)	Population (Nos.)			Water Demand (KLD)		
								2011	2022	2042	2011	2022	2042
MZ02	LWSS Chambi Jola JahalPadhiun in GP Talyahar	MS-1	Mandi	Sundernagar	Mandi	13	32	5967	6803	8295	566.87	646.29	788.03
	LWSS Kathlag in GP Talyahar												
	LWSS Sai Alathu in GP Pairi.												
	WSS Sain in GP Sain.												
	LWSS Srian Patron	MS-2	Mandi	Sundernagar	Mandi	2	10	1927	2195	2679	183.06	208.56	254.51
	LWSS Randhara												
	LWSS DugliChhalla	MS-3	Mandi	Sundernagar	Mandi	8	21	2716	3089	3768	258.02	293.50	358.00
	WSS Shala Shara in GP Bhatwari Tehsil Sadar												
	WSS Behli Mahadev and	MS-5	Mandi	Sundernagar	Sundernagar	13	31	13020	14828	18081	1236.90	1408.66	1717.70
	WSS NerikangerPanyash												
	WSS BahiSarhi	MS-6	Mandi	Sundernagar	Karsog	10	42	3133	3585	4366	297.64	340.58	414.77
	WSS Bajo Babi												
	WSS Dhar Kandlu												
	WSS PangnaNagrown Phase-II												
	WSS MashogKotlu phase-III												

Package	Scheme	Grid ID	District	Circle	Division	Villages (Nos.)	Habitation (Nos.)	Population (Nos.)			Water Demand (KLD)		
								2011	2022	2042	2011	2022	2042
	WSS Sans												
	WSS Bhurla	MS-8	Mandi	Sundernagar	Sundernagar	9	15	2399	2736	3334	227.91	259.92	316.73
	WSS Ger Kunsot												
	WSS Bag karnala												
	WSS BagyarTrohi												
	WSS ShallaBhushla												
	WSS Sandoa												
	WSS Bajrohru	MS-9	Mandi	Sundernagar	Sundernagar	9	28	2692	3076	3747	255.74	292.22	355.97
	WSS Jail Bhalothi												
	WSS KhananooSalyandhi												
	WSS Shangri Shamnosh												
	WSS Tunna Dari												
	WSS BalhriKaidaraKutala												
	WSS KhumbaGowata	MS-15	Mandi	Sundernagar	Karsog	17	47	2234	2564	3126	212.23	243.58	296.97
	WSS BaneshtiJiyog												
	WSS ChurasaniMasolag												
	WSS Kutachi												
	WSS KansarDharwar												
	TOTAL					81	226	34088	38876	47396	323	3693	4502

Source: Population Source: Census 2011, (2022 & 2042 populations are projected)

13. As mentioned in the table above, MZ02 (District Mandi Package-1) is covering 81 villages and 226 habitations, having a population of 38,876 and 47,396 in 2022 and 2042 respectively. The water demand for 2022 and 2042 is ~3693 KLD and ~4503 KLD respectively. The geographical spreads of the eight grids in MZ02 is shown below:

Figure 1: Location of Project Area



III. SUBPROJECT DESCRIPTION

A. Present status of Water Supply System in the Project Area

14. Presently the schemes are being operated at 40 LPCD with intermittent water supply to the consumers. Apart from piped water supply, consumers rely on local sources including springs, baories and nallahs for meeting the water demands. The water flow largely remains unaccounted due to absence of any water flow monitoring and automation system. This has led to unequal water supply in different areas and inefficiency in the system. The key objectives of the assignment are as below to strengthen the existing network system and provide 100% rural house with piped water supply.

15. All the schemes were commissioned prior to year 2000. The condition of most of the water supply infrastructure including water tanks, source intake, pump houses and pipelines is in bad condition and needs replacement. The non-revenue water is estimated close to 30% in most of the schemes due to leakages and damages in tanks and pipelines.

B. Proposed Subproject Component

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

Table 2: Proposed Subproject Components

Grid No	Components	Details
MS-1	Proposed Water Source	Construction of Jack Well near Beas River at Raghu Nath ka Padhar- 1 no
	WTPs	Construction of one WTP of 1.2 MLD at Raghu Nath ka Padhar
	Pump house	Construction of one Pump House near proposed WTP Raghu Nath ka Padhar.
	MBR	Construction of one MBR of 40 KL
	SR	Construction of eight SRs of 25 KL, 60 KL, 35 KL, 40 KL, 50 KL, 70 KL, 20 KL and 20 KL)
MS-2	Proposed Water Source	Proposed water source is Gambhar Khad
	WTPs	Construction of one WTP of 255 KLD at Bhanchwali
	Pump houses	Construction of Pump house at Bhanchwali.
	MBR	Construction of one MBR of 20 KL
	SRs	Construction of five SRs of 20 KL, 20 KL, 20 KL, 50 KL and 20 KL.
MS-3	Proposed Water Source	Proposed Water Source is Beas River at Aut Village
	WTP	Construction of one WTP of 600 KLD in Aut Village.
	Pump houses	Construction of three Pumping Stations near WTP of Aut village, MBR-1 and proposed sump well resp.
	MBR	Construction of two MBRs of 40 KL
	SR	Construction of seven SRs of 25 KL, 25 KL, 25KL, 20 KL, 20 KL, 20 KL and 20 KL.
MS-5	Proposed Water Source	Proposed Water Source is BBMB Canal at Rao village
	WTPs	Construction of one WTP of 2600 KLD near BBMB Canal
	Pump houses	Construction of two Pump houses at BBMB Canal and MBR-1.
	MBR	Construction of two MBRs of 75 KL and 20 KL
	SRs	Construction of three SRs of 40 KL, 155 KL and 85 KL
MS-6	Proposed Water Source	Proposed three water sources with Headweir and Rectangular Channel with Sump well in Sadiyar Nallah, Nasrar Nallah, Bithari Khad.

Grid No	Components	Details
	WTPs	Construction of five WTPs of ~152 KLD at Sadiyar Nallah; ~71 KLD at Khola Nallah; ~11 KLD at Sans Nallah; ~56 KLD at Nasrar Nallah; ~128 KLD at BithariKhad.
	Pump houses	N/A
	MBR	Construction of one MBR of 70 KL
	SR	Construction of four SRs of 20 KL, 25 KL, 20 KL and 40 KL
MS-8	Proposed Water Source	Diversion spur with rectangular channel at Jiuni (Shared with MS-9)
	WTPs	Construction of one WTP of 1100 KLD at Jiuni this will be shared with Grid MS-9.
	Pump houses	Construction of one Pump house at Jiuni village. This will be shared with Grid MS-9.
	MBR	Construction of two MBRs of 25 KL and 20 KL Capacity
	SR	Construction of four SRs of 40 KL, 20 KL, 25 KL and 35 KL
MS-9	Proposed Water Source	Diversion spur with rectangular channel at Jiuni (Shared with MS-8)
	WTPs	Construction of one WTP of 1100 KLD at Jiunivillage. This will be shared with Grid MS-8.
	Pump houses	1 No. Pump house at Jiuni (Shared with MS-8)
	MBR	Construction of one MBR of 20 KL Capacity
	SR	Construction of six SRs of 20 KL, 20 KL, 20 KL, 20 KL, 30 KL and 35 KL
MS-15	Proposed Water Source	Proposed source with 5 Nos Headweir and Rectangular Channel with sumpwell at Sadiyar Nallah, Gowata Nallah, Chuhar Nallah, Nasrar Nallah and Nanonta Nallah.
	WTPs	Construction of five WTPs of ~35 KLD at Gowata Nallah; ~76 KLD at Sadair Nallah ~111 KLD at Chuhar Nallah; ~36 KLD at Narara Nallah; ~40 KLD at Nanonta Nallah
	Pump houses	N/A
	MBR	N/A
	SR	Construction of nine SRs ; Eight SRs of 20 KL and one SR of 60 KL

Source: Preliminary Detailed Project Report, 2020-21

17. Additional information on Water source, Intake arrangements and WTPs are appended in **Appendix 10**.

18. **House Service Metered Connections:** Provide, lay, join, test and commission i/c fittings of House Service connection for 100% household coverage of the project area. Household connection shall be provided with 15mm dia Galvanized Iron pipe conforming to BIS-1239 through the ferrule, domestic smart water meter and CI clamps in the distribution network along with 15 mm GM gate valve. Information regarding number of proposed metered connections is presented in table 3 below.

Table 3: Proposed Metered Connection

Grid No.	Total Projected Population in 2022	Total number of Proposed Metered connections in 2022
MS-1	6803	1362
MS-2	2195	442
MS-3	3089	619
MS-5	14828	2967
MS-6	3585	719
MS-8	2736	549
MS-9	3076	616
MS-15	2564	515
Total	38876	7789

Source: Preliminary Detailed Project Report, 2020-21

19. Intakes, WTPs, Pump houses, MBRs and SRs are the major civil structures proposed in this package. The summary of number of proposed civil structures grid wise is summarized below.

Table 4: Number of Proposed Civil Structures in MZ02

Number of Civil structures						
Package	Grid no.	Intake	WTPs	Pump House	MBRs	SRs
MZ02 (District Mandi Package- 1)	MS-1	1	1	1	1	8
	MS-2	1	1	1	1	5
	MS-3	1	1	3	2	7
	MS-5	1	1	2	2	3
	MS-6	5	5	0	1	4
	MS-8	1	1	1	2	4
	MS-9	1	1	1	1	6
	MS-15	5	5	0	0	9
Total		15	15	9	10	46

20. As above table shows that there are about 15 intakes, 15 WTPs, 9 pump houses, 10 MBRs and 46 SRs have been proposed under this package. The grid wise detailed integrated plans¹ of the proposed components mentioned in the above table 4 are appended in Appendix 17. The detailed description of these civil structures is appended in Table 2. The water transmission mains proposed in this package are shown in the table below:

Table 5: Raw Water Transmission Main

¹Detailed Integrated Plan outlines all proposed components including intakes, pump houses, WTPs, water storage tanks, rising mains, gravity mains and distribution network in the project area.

Grid	Length of Pipe (Raw water transmission Main)						
	50 mm	65 mm	80 mm	100 mm	125 mm	150 mm	200 mm
MS-1	0	0	0	0	0	49	0
MS-2	0	0	20	0	0	0	0
MS-3	0	0	0	65	0	0	0
MS-5	20	0	0	0	0	0	0
MS-6	0	50	0	0	0	0	0
MS-8	0	0	0	0	76	0	0
MS-9	0	0	0	0	0	0	0
MS-15	0	50	0	0	0	0	0
Total Length	20	100	20	65	76	49	0

Table 6: Clear Water Transmission Main

Grid	Length of Pipe (Clear water transmission Main)						
	50 mm	65 mm	80 mm	100 mm	125 mm	150 mm	200 mm
MS-1	4951	4033	1997	4836	0	5850	0
MS-2	2963	732	2203	0	0	0	0
MS-3	7591	5524	5202	4046	0	0	0
MS-5	35	2304	3209	4039	2217	1432	2859
MS-6	3469	16404	4672	0	0	0	0
MS-8	483	13711	0	0	2238	0	0
MS-9	5631	7106	6526	0	0	0	0
MS-15	6216	3611	1439	0	0	0	0
Total Length	31339	53425	25248	12921	4455	7282	2859

Table 7: Distribution Network

Grid	Length of Pipe – Distribution network								
	25 mm	32 mm	40 mm	50 mm	65mm	80 mm	100 mm	125 mm	150 mm
MS-1	0	3824	1361	1827	12994	800	0	0	0
MS-2	0	432	2292	6198	3199	0	0	0	0
MS-3	0	1436	3459	6059	5398	0	0	0	0
MS-5	0	0	3935	3564	9974	2161	3630	702	1496
MS-6	3778	2135	3715	5384	7879	1594	0	0	0

Grid	Length of Pipe – Distribution network								
	25 mm	32 mm	40 mm	50 mm	65mm	80 mm	100 mm	125 mm	150 mm
MS-8	0	316	1622	0	8242	0	0	0	0
MS-9	19	1075	3235	3928	5114	0	0	0	0
MS-15	267	3018	2403	5008	11562	548	0	0	0
Total Length	4064	12236	22022	31968	64362	5103	3630	702	1496

21. Raw Water Transmission Mains – The proposed raw water transmission mains are used to either lift the water from source/ intakes to WTPs/ sump wells or transport the water from source through gravity to WTPs. The length of pipe needed is 330 m and material of the pipe is MSERW. The diameter ranges are 50 mm to 150 mm.

22. Clear Water Transmission Mains – The proposed clear water transmission mains are used either to lift water from WTP to MBR/ SR or to supply water from WTP/ MBR to MBR/ SR through gravity. The length of the pipe needed is about 136 Km. The material of the pipe is GI. The diameter ranges are 50 to 200 mm.

23. Distribution Mains – The proposed distribution network to convey water from Service Reservoirs to habitations is about 146 Km. The material of the pipe is GI. The diameter ranges are 25 mm to 150 mm.

24. **Sludge Disposal Mechanism:** The incoming raw water from sources will be treated through either Slow sand filters or Rapid Sand filters for the removal for suspended solids, BOD, COD and any other impurities as per assigned drinking water standards.

- (i) Provision of recirculation system for backwash water - backwash water from filter beds will be re circulated to WTP inlet and mixed with raw water; this arrangement will minimize wastage of water, which otherwise would have disposed to open drains, and polluted the receiving water body. Since back water is recovered and recirculate in the WTP, no wastewater will be generated from water treatment process. Backwash water from filter beds will be sent to a storage tank, and after allowing adequate time for settlement of solids, clarified water will be pumped to WTP inlet. This arrangement will avoid pollution and minimize wastage of water
- (ii) Accumulated sludge will be disposed-off at sludge drying beds for natural drying. Dried sludge will be used as soil conditioner if it is suitable. Dried sludge will be used as soil conditioner. Largest water treatment plant proposed in the MZ02 (District Mandi Package-1) is of 2600 KLD capacity located at Rao in Grid MS-5 and it is estimated based on the source water quality during monsoon that 1.16 kg of sludge is expected to be generated per day. The water quality in the sources is quite better as being snow fed. The sludge generated will be dried in the sludge drying bed for use as manure in green area within the WTP complex. Periodic testing of dried sludge will be conducted to ensure that it does not contain heavy metals that make it unsuitable for food crops. Tests will be conducted to confirm the concentrations below the following standards. As there are no specific standards notified for sludge reuse, the compost quality standards notified under

the Municipal Solid Waste Management & Handling Rules, 2000 have been adopted here.

25. **Rapid Sand Filter:** Components of the rapid sand filter i.e., Pre settling tank, connecting channel cum venturi flume, flash mix, flocculator, channel connecting flocculator to rapid gravity filter, rapid sand gravity filter and clear water reservoir are cast in-situ. It shall be ensured that WTP (RSF) components shall be designed to permit a 50% overload.

26. **Slow Sand Filter:** Components of the slow sand filter i.e., inlet chamber, filter beds (2 nos.) and collection tank are cast in-situ.

IV. FIELD SURVEYS AND PUBLIC CONSULTATIONS

27. Field visit, consultations and transect walks were carried out in the subproject area keeping in the COVID-19 precautionary measures (Appendix 18). The field visits were carried out in early November for MZ02 (District Mandi Package-1). Due to rise in COVID-19 cases in the state, the team, JSV officials and community were mandated to follow strict COVID-19 protection protocols. All the JSV officials and the team were using PPEs during stakeholder consultations and Focus group discussions (FGDs). The public consultations and FGDs were conducted in open places wherever reachable. Adequate social distancing was followed during the consultations and site visits. During the consultation, the temperature of the participants was measured; further, oximeter was also used to analyse the blood oxygen level of the participants and only healthy participants were allowed to participate in the consultation. Thereafter, the sanitizer has been distributed among the participants. The team has also distributed the masks to community members who were not wearing masks, before beginning of the consultations. The team and JSV officials wore face shields during community consultations.

28. Limited Field visits and transect walk were carried out in the subproject area due to COVID-19 pandemic and travel/movement restrictions and strict protocols. The team involved in this exercise are DPR consultants, safeguard consultants, and PIU officials. Works are mostly proposed in residential areas as well as areas in the outskirts of the villages and within the ROW of the government road. No vendors/squatters were identified during the transect walk. 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 wherever accessible and permissible due to Covid-19.

29. Site inspections were carried out at the site locations of MZ02 (District Mandi Package-1) for the proposed water supply components that include the locations of the Intakes, WTPs, Pump houses, MBRs and SRs. Both existing and proposed component locations were visited to analyse the site and surrounding features along the stretches of the proposed pipeline alignments, especially along the market areas, villages and habitations. Pipeline alignments are preferred to be laid along the roads, pathways and small trails to avoid disruption in villages/habitations wherever possible. The existing alignment was preferred while designing the pipeline network wherever plausible. Right of way/access roads will be used while laying of pipelines for few hours and the traffic will not be disturbed during execution with adopting prior informed schedule of activity. In addition, consultations were conducted with the officers of Jal Shakti Vibhag (JSV), and other stakeholders. Participatory methodology was used to facilitate discussions in the community meetings to solicit ideas and views on the proposed package. The consultations indicate that a major demand from the community members is for the strengthening of water supply network with full coverage to areas. The consultations also include discussions about the

project objectives, 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.

30. Furthermore, a sample survey of the critical areas (Market areas, Junction points, major roads) was carried out with the help of Google Earth images and site photographs to ascertain further if there are any potential involuntary resettlement impacts. Site visits, consultations and sample survey were conducted by the team comprising detailed project report (DPR) consultants, social safeguard consultant and staff from concerned project implementation units (PIUs). Appendix 7, 8 and 9 summarizes the findings of sample survey.

31. 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 8: Schedule of Consultation and Disclosure Activities

Activities	Target Group	Responsible Agency	Timeline
Awareness generation about the project activities	Key stakeholder agencies (Villages, Gram Panchayats, PIU offices such as JSV, elected representatives)	PIU/contractor with PMU/PDMSC 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/PDMSC	During construction
Gram Panchayat 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/contractor with PMU/PDMSC inputs and support	Once a year during project implementation cycle

V. SCOPE OF LAND ACQUISITION AND RESETTLEMENT

32. The scope of land acquisition and involuntary resettlement impacts has been identified based on the field visits and transect walk to the subproject components' locations. Table 8 below summarizes the land acquisition and involuntary resettlement impacts of the proposed subproject. No impacts on structures and livelihood are anticipated.

33. The components are proposed on available government lands and 5 components are on private land which will be obtained through Voluntary Land Donation. No land donation from any Vulnerable²/BPL household will be done and it will not render them landless.

² Vulnerable Households/ groups comprise of those living below the poverty line, elderly headed households, destitute children (orphans, child workers), scheduled caste, scheduled tribes, disable-headed household, and transgender people, landless persons and those without legal site.

Table 9: Subproject Components and Summary of Involuntary Resettlement Impact

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
1	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Construction of Jack Well near Beas River at Raghu Nath ka Padhar - 1 no.	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Works to be carried out along Beas River. Intake will be constructed on the available vacant government land under the ownership of JSV as per FCA Award Letter 8B/HP/09/97/2017/FC/1468 dated 30.11.2017. Due to delay in interdepartmental process, the ownership status of JSV is not yet updated in Revenue Records. FCA Award may be referred as Appendix 4 (a). There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land. No involuntary resettlement impact is anticipated.
2	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Construction of Water treatment Plant along Beas River	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	WTP will be constructed on the available vacant government land under the ownership of JSV as per FCA Award Letter 8B/HP/09/97/2017/FC/1468 dated 30.11.2017. Due to delay in interdepartmental process, the ownership status of JSV is not yet updated in Revenue Records. FCA Award may be referred as Appendix 4 (a). There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							<p>proposed land. No involuntary resettlement impact is anticipated.</p> <p>Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.</p>
3	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Construction of Pump House along Beas River	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	<p>Pump house will be constructed on the available vacant government land under the ownership of JSV as per FCA Award Letter 8B/HP/09/97/2017/FC/1468 dated 30.11.2017. Due to delay in interdepartmental process, the ownership status of JSV is not yet updated in Revenue Records. FCA Award may be referred as Appendix 4 (a). There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land. No involuntary resettlement impact is anticipated.</p> <p>Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.</p>
4	MS1	LWSS Chambi, Jola, Jhal, Padhiun	MBR (D) Devi Dhar (Staging - 10 m	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	<p>Proposed MBR Devi Dhar will be constructed on the available government land under the ownership of JSV as per FCA Award Letter 8B/HP/09/97/2017/FC/1468 dated 30.11.2017. Due to delay in interdepartmental process, the</p>

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							ownership status of JSV is not yet updated in Revenue Records. FCA Award may be referred as Appendix 4 (a). The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
5	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Proposed SR Fatebahan	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Fatebahan will be constructed on the available government land under the ownership of JSV as per FCA Award Letter 8B/HP/09/97/2017/FC/1468 dated 30.11.2017. Due to delay in interdepartmental process, the ownership status of JSV is not yet updated in Revenue Records. FCA Award may be referred as Appendix 4 (a). There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
6	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Proposed SR Manthala 3	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Manthala 3 will be constructed on the available government land under the ownership of JSV as per FCA Award

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							Letter 8B/HP/09/97/2017/FC/1468 dated 30.11.2017. Due to delay in interdepartmental process, the ownership status of JSV is not yet updated in Revenue Records. FCA Award may be referred as Appendix 4 (a). There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
7	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Proposed SR Gaddle	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Gaddle will be constructed on the available on government land under the ownership of JSV as per FCA Award Letter 8B/HP/09/97/2017/FC/1468 dated 30.11.2017. Due to delay in interdepartmental process, the ownership status of JSV is not yet updated in Revenue Records. FCA Award may be referred as Appendix 4 (a). The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land.
8	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Proposed SR Rati Pull	None	Unused Vacant Land	3 m wide and 20 m long	Proposed SR Rati Pull will be constructed on the available government land owned by JSV.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
						bituminous road	There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land. No involuntary resettlement impact is anticipated.
9	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Proposed SR Jola	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Jola will be constructed on the available government land owned by JSV. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land.
10	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Proposed SR Alathu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Alathu will be constructed on the available government land owned by JSV. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land.
11	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Proposed SR Sain	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Sain constructed on the available government land under the ownership of JSV as per FCA Award Letter 8B/HP/09/97/2017/FC/1468 dated 30.11.2017. Due to delay in interdepartmental process, the

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							ownership status of JSV is not yet updated in Revenue Records. FCA Award may be referred as Appendix 4 (a). There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land. No involuntary resettlement impact is anticipated. Thus, no temporary or permanent IR impact envisaged.
12	MS2	LWSS Srain Patron Ghambhar Khad near Bhanchwali & LWSS Randhara GhambharKhad near GhambharPul	Proposed WTP and Pump house at Bhanchwali	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	<p>WTP and Pump house will be constructed on the available vacant government land owned by Forest Department. The components are proposed next to the existing structures. The existing structures to be used as a backup in case of emergency. There is no permanent or temporary structure or non-title holder (NTH)/ encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged.</p> <p>Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.</p>
13	MS2	LWSS Srain Patron Ghambhar Khad near Bhanchwali & LWSS Randhara GhambharKhad near GhambharPul	Proposed MBR Patron	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Patron will be constructed on the available vacant government land owned by Forest Department. There is no permanent or temporary structure, non-titled Holders (NTH)/encroachers on the

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							proposed land. Thus, no temporary or permanent IR impact envisaged.
14	MS2	LWSS Srain Patron Ghambhar Khad near Bhanchwali & LWSS Randhara GhambharKhad near GhambharPul	Proposed SR Randhara (Dehari)	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Randhara will be constructed on the available government land owned by Forest Department. T The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, non-titled Holders (NTH)/encroachers on the proposed land.
15	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambharKhad near GhambharPul	Proposed SR Badhu Bara	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Badhu Bara will be constructed on the available government land owned by Forest Department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, non-titled Holders (NTH)/encroachers on the proposed land.
16	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambharKhad near GhambharPul	Proposed SR Mandlog	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Mandlog will be constructed on the available government land owned by Forest Department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							structure, non-titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged.
17	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambharKhad near GhambharPul	Proposed SR Sarain	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Sarain will be constructed on the available government land owned by Forest Department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, non-titled Holders (NTH) or encroachers on the proposed land.
18	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambharKhad near GhambharPul	Proposed SR Tandi	None	Unused Vacant Land	3m wide and 20m long bituminous road	Proposed SR Tandi will be constructed on the available government land owned by Forest Department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, non-titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged.
19	MS6	WSS BahiSarhi	Headweir and rectangular channel at Water Source Sadiyar Nala	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during	Proposed Headweir, sumpwell and rectangular channel at sadiyar nallah will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure,

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
						Detailed measurement survey (DMS) ^a	non-titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged.
20	MS6	WSS BahiSarhi	Sumpwell at Water Source Sadiyar Nala	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS)	Proposed Headweir, sumpwell and rectangular channel at sadiyar nallah will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, non-titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged.
21	MS6	WSS BahiSarhi	Proposed Water Treatment Plant at Sadiyar Nallah	None	Unused Vacant Land	3m wide and 50 m long bituminous road	WTP will be constructed on the available vacant government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.
22	MS6	WSS BahiSarhi	Proposed MBR Khalog	None	Unused Vacant Land	3m wide and 20 m long bituminous road	Proposed MBR Khalog will be constructed on the available government land owned by The Forest department. The new tank is proposed next to the existing tank. The existing structure to be used as

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							a backup in case of emergency. There is no permanent or temporary structure, Non-Titled Holders (NTH) or encroachers on the proposed land.
23	MS6	WSS Bahi Sarhi	Proposed SR Sarhi	None	Unused Vacant Land	3m wide and 20 m long bituminous road	Proposed SR Sarhi will be constructed on the available government land owned by the forest department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land.
24	MS6	WSS Bajo Babi	Proposed Headweir and Rectangular channel at Nasrar Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Headweir and rectangular channel will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH) or encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged.
25	MS6	WSS Bajo Babi	Proposed Sump well near Nasrar Nalla	None	Unused Vacant Land		Proposed Sumpwell will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH) or encroachers on the proposed land.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							Thus, no temporary or permanent IR impact envisaged.
26	MS6	WSS Bajo Babi	Proposed Water Treatment Plant at Narsar Nallah	None	Unused Vacant Land	3m wide and 50 m long bituminous road	WTP at Narsar Nallah will be constructed on the available vacant government land owned by Forest Department. There is no permanent or temporary structure, Non-Titled Holders (NTH) or encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.
27	MS6	WSS Dhar Kandlu	Source Khola Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Headweir and rectangular channel will be constructed on the available government land owned by the Forest department near to Khola Nallah. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged.
28	MS6	WSS Dhar Kandlu	Proposed Sump well near Khola Nala	None	Unused Vacant Land		Proposed Sumpwell will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
29	MS6	WSS Dhar Kandlu	Proposed Water Treatment Plant at Khola Nallah	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP will be constructed on the available vacant government land owned by Forest Department. There is existing WTP which will be retained and used in case of emergency. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.
30	MS6	WSS Dhar Kandlu	Proposed SR Balaso	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Balaso will be constructed on the available government land owned by Forest Department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land.
31	MS6	WSS PangnaNagrown Phase-II & WSS MashogKotlu phase-III	Proposed Headwear Rectangular channel with sump at BithariKhad	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed	Proposed Headweir and rectangular channel will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
						measurement survey (DMS) ^a	land. No involuntary resettlement impact is anticipated.
32	MS6	WSS MashogKotlu phase-III WSS MashogKotlu phase-III	Proposed Sump well BithariKhad near GSSS Kutachi	None	Unused Vacant Land		Proposed Sump well will be constructed on the available government land owned by the Forest department. There is an existing sump which will be retained. There is no permanent or temporary structure, Non-Titled Holders (NTH) or encroachers on the proposed land. No involuntary resettlement impact is anticipated.
33	MS6	WSS PangnaNagrown Phase-II & WSS MashogKotlu phase-III	Proposed Water Treatment Plant at BithariKhad	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP will be constructed on the available vacant government land owned by Forest Department. There is existing WTP which will be retained and used in case of emergency. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.
34	MS6	WSS MashogKotlu phase-III WSS MashogKotlu phase-III	Proposed SR Nagroan	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Nagroan will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, Non-Titled Holders

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							(NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
35	MS6	WSS Sans	Proposed Headweir and Rectangular channel at Sans Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Headweir and rectangular channel will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
36	MS6	WSS Sans	Proposed Sump well near Sans Nala	None	Unused Vacant Land		Proposed sump well will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
37	MS6	WSS Sans	Proposed Water Treatment Plant at Sans Nallah	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	WTP near Sans Nallah will be constructed on the available vacant government land owned by Forest Department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No involuntary resettlement impact is anticipated.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.
38	MS6	WSS Sans	Proposed SR Sans	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Balaso will be constructed on the available government land owned by Forest Department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, Non-Titled Holders (NTH)/ encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
39	MS8 & MS9	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa (and MS 9 schemes)	Proposed Construction of Diversion spur at Jiuni Khad.. (Common for grid MS8&MS9)	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Headweir and rectangular channel will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH) or encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
40	MS8 & MS9	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa (and MS 9 schemes)	Proposed WTP and Pump House at Jiuni	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	WTP and Pump house at Samnos will be constructed on the available vacant government land owned by the Forest Department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							land. No temporary or permanent IR impact is envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.
41	MS8 & MS9	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed MBR Lower Chandyas	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Lower Chandyas will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
42	MS8	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed MBR-2 Salog	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR MBR-2 Salog will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
43	MS8	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed SR Bhurla	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Bhurla will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
44	MS8	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed SR Bag Karnala	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Bag Karnala will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
45	MS8	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed SR Makhlot	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Makhlot will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
46	MS8	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed SR Shala	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Shala will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
47	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed MBR Bhangroh	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Bhangroh will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
48	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Shila Kandhi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR ShilaKandhi will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
49	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Bhaloti	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Bhaloti will be constructed on the available government land owned by the forest department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land.
50	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Dari	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Dari will be constructed on the available government land owned by the forest department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
51	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Khananu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Khananu will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
52	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Odi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Odi will be constructed on the available government land owned by the forest department. The new tank is proposed next to the existing tank. The existing structure to be used as a backup in case of emergency. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
53	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Bhauli Top	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR BhauliTop will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
54	MS15	WSS KhumbaGowata	Proposed Headweir and rectangular	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed	Proposed Headwier, rectangular channel and sump will be constructed on the available government land owned by the forest

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
			channel at Gowata Nallah			and finalized during Detailed measurement survey (DMS) ^a	department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
55	MS15	WSS Khumba Gowata	Proposed Sump well at Gowata Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Headwiler, rectangular channel and sump will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
56	MS15	WSS Khumba Gowata	Proposed WTP Gowata Nallah	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP at Gowata Nallah will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.
57	MS15	WSS Khumba Gowata	Proposed SR Gowata	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Gowata will be constructed on the available government land owned by the forest department. There is no permanent

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
58	MS15	WSS KhumbaGowata	Proposed SR Khumba	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Khumba will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
59	MS15	WSS KhumbaGowata	Proposed SR Swar	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Swar will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
60	MS15	WSS BaneshtiJiyog	Proposed headweir, sump and rectangular channel at Sadair Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Headweir, sump and rectangular channel will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
61	MS15	WSS BaneshthiJiyog	Proposed WTP and Sumpwell Sadair Nallah	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP and Sumpwell will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.
62	MS15	WSS BaneshthiJiyog	Proposed SR Gadog	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Gadog will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
63	MS15	WSS BaneshthiJiyog	Proposed SR Jhungi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Jhungi will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
64	MS15	WSS ChurasaniMasolag	Proposed Headweir, rectangular	None	Unused Vacant Land	1-2 m kaccha pathway. It will be	Proposed Head weir, sump and rectangular channel will be constructed on the available

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
			channel and sump at Nanota Nallah			assessed and finalized during Detailed measurement survey (DMS) ^a	government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
66	MS15	WSS ChurasaniMasolag	Proposed WTP and Sumpwell at Nanota Nallah	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP and sumpwell will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.
67	MS15	WSS ChurasaniMasolag	Proposed SR Chanwara	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Chanwara will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
68	MS15	WSS ChurasaniMasolag	Proposed SR Rashwala	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Rashwala will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure,

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
69	MS15	WSS Kutachi	Proposed Headweir, rectangular channel at Chuhar Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Headweir, sump and rectangular channel will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
70	MS15	WSS Kutachi	Proposed sumpwellat Chuhar Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Headweir, sump and rectangular channel will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.
71	MS15	WSS Kutachi	Proposed WTP at Chuhur Nallah	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. No temporary or permanent IR impact is envisaged.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
72	MS15	WSS Kutachi	Proposed SR Khatidhar	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Khatidar will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land.
73	MS15	WSS Kutachi	Proposed Headweir, rectangular channel and sump at Narara Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Headweir, sump and rectangular channel will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
74	MS15	WSS Kutachi	Proposed WTP and sumpwell at Narara Nallah	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP and Sumpwell will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
75	MS15	WSS Kutachi	Proposed SR ChakaraNal	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Chakra Nal will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH) or encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
76	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed intake at soul khad along Bhakra Beas Management Board (BBMB) Canal at Rao	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed intake will be constructed on the available government land owned by BBMB. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
77	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Water Treatment Plant and Pump House new Canal at Rao	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP and PH will be constructed on the available government land owned by BBMB. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
78	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Pump house At MBR 1	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed Pump house MBR 1 will be constructed on the private Land Voluntary Donated by the Owner Mr. Hem Prabh. The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
79	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed MBR-1 (Majhrot)	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR 1 will be constructed on the private Land Voluntary Donated by the Owner Mr. Hem Prabh. The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
80	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed MBR-2 (Darman)	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR 2 will be constructed on the Private Land Voluntary Donated by the Owner Mr. AccharuRamThe Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
81	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed OHT 155 KL Near Bhim Singh House	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed OHT 155KL will be constructed on the private Land Voluntary Donated by the Owner Mr. BhimSingh. The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
82	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed OHT Panyas	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed OHT Panyas will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							land. Thus, no temporary or permanent IR impact is envisaged.
83	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed SR near Shitla Mata temple	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR will be constructed on the private Land Voluntary Donated by the Owner Mr. Prem Singh. The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
84	MS3	LWSS DugliChhalla& WSS Shala Shara	Rail cum Trolley system & Winch Room at River Beas near Aut Village	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Intake at River Beas near Aut Village will be constructed on the available vacant government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
85	MS3	LWSS DugliChhalla& WSS Shala Shara	Water Treatment Plant at Aut Village and Pumping Station WTP to Sumpwell	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP and pumping station will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged. Appendix 6 provides the Khasra map, revenue records and google map of the proposed WTP.

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
86	MS3	LWSS DugliChhalla & WSS Shala Shara	Pumping Station sumpwell to MBR-1 (Dhar)	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed pumping station will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
87	MS3	LWSS DugliChhalla & WSS Shala Shara	Pumping Station MBR-1 (Dhar) to MBR-2 (Diun Dhar) and MBR-1	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR-1 and pumping station will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
88	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed MBR-2	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR-2 will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
89	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR KotDhalyas	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR KotDhalyas will be constructed on the available government land owned by the Forest department. There is no permanent or temporary structure, Non-Titled Holders



SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							(NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
90	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Palechhari	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Palechhari will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
91	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Tharu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Tharu will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
92	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Pub	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Pub will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.



SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
93	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR- Ratun Dhar	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR RatunDhar will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
94	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Baggi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Baggi will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.
95	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Shara	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Shara will be constructed on the available government land owned by the forest department. There is no permanent or temporary structure, Non-Titled Holders (NTH)/encroachers on the proposed land. Thus, no temporary or permanent IR impact is envisaged.




Source: Site Visits, Transect walks, sample survey, DPRs, technical documents and analysis.



^a No Improvement or widening of Kaccha pathways/ access road is proposed. Hence, there will be no requirement or private land acquisition. No impact is anticipated as there is no permanent/ temporary structure or Non-Title Holder (NTH) on the Kaccha pathways.




Table 10: Details of land availability, ownership, description of surrounding areas, present land Use and status of No Objection Certificate (NOC) for sites



SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
1	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Construction of Jack Well near Beas River	At Raghu Nath ka Padhar along Beas River	JSV	40	10	NA*	Works to be carried out along Beas River. Refer Appendix 4(a) for Land records/ NOCs.	
2	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Water Treatment Plant (1.2 MLD) at Raghu Nath Ka Padhar.	At Raghu Nath ka Padhar along Beas River Near Sheetla Mata Sewa Samiti	JSV	4000	3500	16/1	Works to be carried out along Beas River. Refer Appendix 5 for Revenue Records, Khasra Map and Google Earth Imagery	



SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
									Refer Appendix 4(a) for Land records/ NOCs.	
3	MS1	LWSS Chambi, Jola, Jhal, Padhiun	Pumping station at Near proposed WTP Raghu Nath Ka Padhar.						Refer Appendix 4(a) for Land records/ NOCs.	
4	MS1	LWSS Chambi, Jola, Jhal, Padhiun	MBR Devi Dhar (OHT-10m)	Located in Village Manthala.	JSV	100	81	1020	Refer Appendix 4(a) for Land records/ NOCs.	



SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
5	MS1	LWSS Chambi, Jola, Jhal, Padhiun	SR Fatebahan	Located in Village Fatebahan.	JSV	1922	64	208/1-2	Refer Appendix 4(a) for Land records/ NOCs.	
6	MS1	LWSS Chambi, Jola, Jhal, Padhiun	SR Manthala 3	Located in village Manthala	JSV	100	81	1020/1	Refer Appendix 4(a) for Land records/ NOCs.	
7	MS1	LWSS Chambi, Jola, Jhal, Padhiun	SR Gaddle	Located in Village Gaddle	JSV	100	81	89/1	Refer Appendix 4 (a) for Land records/ NOCs.	




SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
8	MS1	LWSS Chambi, Jola, Jhal, Padhiun	SR Rati Pull	Located in village Jolla	JSV	100	64	58/1	Refer Appendix 4 (a) for Land records/ NOCs.	
9	MS1	LWSS Chambi, Jola, Jhal, Padhiun	SR Jola	Located in village Jolla	JSV	100	81	205/1	Refer Appendix 4 (a) for Land records/ NOCs.	



SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
10	MS1	LWSS Chambi, Jola, Jhal, Padhiun	SR Khatlag	Located in Village Kathlag	JSV	100	81	271/1	Refer Appendix 4 (a) for Land records/ NOCs.	
11	MS1	LWSS Chambi, Jola, Jhal, Padhiun	SR Alathu	Located in Village Alathu	JSV	100	64	325/1	Refer Appendix 4 (a) for Land records/ NOCs.	
12	MS1	LWSS Chambi, Jola, Jhal, Padhiun	SR Sain	Located in Village Sain	JSV	100	64	154	Refer Appendix 4 (a) for Land records/ NOCs.	





SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
13	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambhar Khad near GhambharPul	WTP at Bhanchwali	Located in village ChaukriChandrahan	Forest Department	5812	900	569	Land records/ NOCs in Process. Will be updated in Appendix 4 (b) once received. Refer Appendix 5 for Revenue Records, Khasra Map and Google Earth Imagery	
14	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambhar Khad near GhambharPul	Proposed Pumping station at Near proposed WTP Bhanchwali	Located in village ChaukriChandrahan	Forest Department	5812			Land records/ NOCs in Process. Will be updated in Appendix 4 (b)	





SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
									once received .	
15	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambhar Khad near GhambharPul	Proposed MBR Patron	Located in village Ganed	Forest Department	5812	64	569	Land records/ NOCs in Process. Will be updated in Appendix 4 (b) once received .	
16	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambhar Khad near GhambharPul	SR Randhara (Dehari)	Located in village Randhara	Forest Department	100	81	390	Land records/ NOCs in Process. Will be updated in Appendix 4 (b) once received .	





SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
17	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambhar Khad near GhambharPul	SR Badhu Bara	Located in village Ganed	Forest Department	4,470	64	93	Land records/ NOCs in Process. Will be updated in Appendix 4 (b) once received.	
18	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambhar Khad near GhambharPul	SR Mandlog	Located in village Ganed	Forest Department	16,730	64	485	Land records/ NOCs in Process. Will be updated in Appendix 4 (b) once received.	




SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
19	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambhar Khad near GhambharPul	SR Sarain	Located in village Ganed	Forest Department	NA	64	323	Land records/ NOCs in Process. Will be updated in Appendix 4 (b) once received.	
20	MS2	LWSS Srain Patron GhambharKhad near Bhanchwali&LWSS RandharaGhambhar Khad near GhambharPul	SR Tandri	Located in village Ganed	Forest Department	NA	64	323	Land records/ NOCs in Process. Will be updated in Appendix 4 (b) once received.	
21	MS3	LWSS DugliChhalla& WSS Shala Shara	Rail cum Trolley system & Winch Room at River Beas	Near Aut Village	Forest Department	50,100	NA	265/205	Refer Appendix 4 (b) for Land records/ NOCs.	




SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
			near Aut Village							
22	MS3	LWSS DugliChhalla & WSS Shala Shara	Water Treatment Plant at Aut Village	Located in village Aut	Forest Department	50,100	1970	265/205	Refer Appendix 4 (b) for Land records/ NOCs Refer Appendix 5 for Revenue Records, Khasra Map and Google Earth Imagery	
23	MS3	LWSS DugliChhalla & WSS Shala Shara	Pumping Station WTP to Sumpwell	Located in village Aut	Forest Department	28,912		272/232	Refer Appendix 4 (b) for Land records/ NOCs	
24	MS3	LWSS DugliChhalla & WSS Shala Shara	Pumping Station sumpwell to MBR-1 (Dhar)	Kashna	Forest Department	100	48	237/1	Refer Appendix 4 (b) for Land records/ NOCs	




SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
25	MS3	LWSS DugliChhalla & WSS Shala Shara	Pumping Station MBR-1 (Dhar) to MBR-2 (Diun Dhar)	Kashna	Forest Department	1,02,822	48	384/239/1	Refer Appendix 4 (b) for Land records/ NOCs	
26	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed MBR-1	Kashna	Forest Department	1,02,822	81	384/239/1	Refer Appendix 4 (b) for Land records/ NOCs	
27	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed MBR-2	Pub	Forest Department	35,400	81	1/1	Refer Appendix 4 (b) for Land records/ NOCs	
28	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR KotDhalyas	KotShakyas	Forest Department	2,07,120	64	3/1	Refer Appendix 4 (b) for Land records/ NOCs	



SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
29	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Palechhari	KotShakyas	Forest Department	90	64	2/1	Refer Appendix 4 (b) for Land records/ NOCs	
30	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Tharu	Tharu	Forest Department	11,673	64	712/1	Refer Appendix 4 (b) for Land records/ NOCs	
31	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Pub	Pub	Forest Department	35,400	64	1/1	Refer Appendix 4 (b) for Land records/ NOCs	
32	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR-Ratun Dhar	Dhangshi	Forest Department	6,16,300	64	535/265/1	Refer Appendix 4 (b) for Land records/ NOCs	



SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
33	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Baggi	Kashna	Forest Department	35,400	64	1/1	Refer Appendix 4 (b) for Land records/ NOCs	
34	MS3	LWSS DugliChhalla & WSS Shala Shara	Proposed SR Shara	Shara	Forest Department	35,400	64	1/1	Refer Appendix 4 (b) for Land records/ NOCs	
35	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Bhakra Beas Management Board (BBMB) Canal at Rao	Damohal	BBMB	7300	20	845	Refer Appendix 4 (c) for Land records/ NOCs.	
36	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Water Treatment Plant	Damohal	BBMB	7330	5635	845	Refer Appendix 4 (c) for Land records/ NOCs..	
37	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Pump house near Canal at Rao	Damohal	BBMB			846	Refer Appendix 5 for	




SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
									Revenue Records , Khasra Map and Google Earth Imagery	
38	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Pump house At MBR 1	Chambi	Private	2887	48	971	Refer Appendix 5 for Land records/ NOCs.	
39	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed MBR-1 (Majhrot)	Chambi	Private		81	971		
40	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed MBR-2 (Darman)	Draman	Private	2752	64	273	Refer Appendix 5 for Land records/ NOCs.	
41	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed OHT 155 KL Near Bhim Singh House	Mahadev	Private	2093	144	160	Refer Appendix 5 for Land records/ NOCs.	



SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
42	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed OHT Panyas	Doldhar	Forest Department	48,422	81	301	Refer Appendix 4 (b) for Land records/ NOCs	
43	MS5	WSS Behli Mahadev and WSS NeriKangerPanyash	Proposed SR near Shitla Mata Temple	Chambi	Private	3642	100	1089	Refer Appendix 5 for Land records/ NOCs.	
44	MS6	WSS BahiSarhi	Proposed Water Treatment Plant at Sadiyar Nallah	Lot	Forest Department	700	575	N/A	Refer Appendix 4 (b) for Land records/ NOCs. Refer Appendix 5 for Revenue Records, Khasra Map and Google Earth Imagery	




SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
45	MS6	WSS BahiSarhi	Proposed MBR Khalog	Bahi	Forest Department	100	81	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
46	MS6	WSS BahiSarhi	Proposed SR Sarhi	Bahi	Forest Department	100	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
47	MS6	WSS Bajo Babi	Proposed Water Source Nasrar Nallah	DPF Dhamedi	Forest Department	30	length - 20 m and channel 50	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
48	MS6	WSS Bajo Babi	Proposed Sump well near Nasrar Nalla	DPF Dhamedi	Forest Department	30	Dia 1.8 m and depth 2.6 m	N/A		




SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
49	MS6	WSS Bajo Babi	Proposed Water Treatment Plant at NasrarNalah	DPF Dhamedi	Forest Department	500	400	N/A	Refer Appendix 4 (b) for Land records/ NOCs Refer Appendix 5 for Revenue Records , Khasra Map and Google Earth Imagery	
50	MS6	WSS Dhar Kandlu	Source Khola Nallah	Balaso	Forest Department	50	length - 20 m and channel 50	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
51	MS6	WSS Dhar Kandlu	Proposed Sump well near Khola Nala	Balaso	Forest Department	20	Dia 1.8 m and depth 2.6 m	N/A		

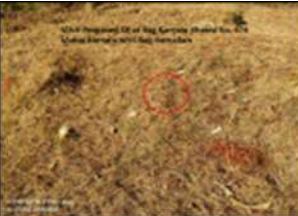



SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
52	MS6	WSS Dhar Kandlu	Proposed Water Treatment Plant at Khola Nallah	Balaso	Forest Department	500	400	N/A	Refer Appendix 4 (b) for Land records/ NOCs Refer Appendix 5 for Revenue Records, Khasra Map and Google Earth Imagery	
53	MS6	WSS Dhar Kandlu	Proposed SR Balaso	Balaso	Forest Department	100	81	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
54	MS6	WSS PangnaNagrown Phase-II & WSS MashogKotlu phase-III	Proposed Headwear Rectangular channel with sump	Gagandarn	Forest Department	60	length - 20 m and channel 50	N/A	Refer Appendix 4 (b) for Land	





SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
			at BithariKhad						records/ NOCs	
55	MS6	WSS PangnaNagrown Phase-II & WSS MashogKotlu phase-III	Proposed Sump well BithariKhad near GSSS Kutachi	Gagandarn	Forest Department	60	In the same campus of the Prop. Source	N/A		
56	MS6	WSS PangnaNagrown Phase-II & WSS MashogKotlu phase-III	Proposed Water Treatment Plant	Gagandarn	Forest Department	600	575	N/A	Refer Appendix 4 (b) for Land records/ NOCs. Refer Appendix 5 for Revenue Records , Khasra Map and Google Earth Imagery	
57	MS6	WSS PangnaNagrown Phase-II & WSS MashogKotlu phase-III	Proposed SR Nagroan	Nagroan	Forest Department	70	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	





SN .	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
58	MS6	WSS Sans	Proposed Water Intake and Sumpwell near Sans Nallah	Lot	Forest Department	30	length - 20 m and channel 50	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
59	MS6	WSS Sans	Proposed Water Treatment Plant at Sans Nallah	Lot	Forest Department	400	340	N/A	Refer Appendix 4 (b) for Land records/ NOCs Refer Appendix 5 for Revenue Records , Khasra Map and Google Earth Imagery	




SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
60	MS6	WSS Sans	Proposed SR Sans	Shansh	Forest Department	100	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
61	MS8 & MS9	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa (and MS 9 schemes)	Construction of Diversion spur at Jiuni Khad. (Common for grid MS8&MS9)	Jiuni	Forest Department	100	length - 50 m and channel 120 m long	1177	Refer Appendix 4 (b) for Land records/ NOCs	
62	MS8 & MS9	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa (and MS 9 schemes)	Proposed Water Treatment Plant	Jiuni	Forest Department	3500	3265	1232	Refer Appendix 4 (b) for Land records/ NOCs	
63	MS8 & MS9	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa (and MS 9 schemes)	Proposed Pumping Stations and Pumps	Jiuni	Forest Department	3500	48	1232	Refer Appendix 5 for Revenue Records, Khasra Map and Google	




SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
									Earth Imagery	
64	MS8 & MS9	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa (and MS 9 schemes)	Proposed MBR Lower Chandyas	Saryach	Forest Department	100	64	64	Refer Appendix 4 (b) for Land records/ NOCs	
66	MS8	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed MBR-2 Salog	Bhurla	Forest Department	100	64	899/1875	Refer Appendix 4 (b) for Land records/ NOCs	
67	MS8	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed SR Bhurla	Bhurla	Forest Department	100	64	864	Refer Appendix 4 (b) for Land records/ NOCs	




SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
68	MS8	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed SR Bag Karnala	Bag	Forest Department	100	81	674	Refer Appendix 4 (b) for Land records/ NOCs	
69	MS8	WSS Bhurla, WSS Ger Kansot, WSS Bag Karnala, WSS BagyarTrohi, WSS ShallaBhushla and WSS Sandoa	Proposed SR Shala	Shala	Forest Department	200	64	72	Refer Appendix 4 (b) for Land records/ NOCs	
70	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Makhlot	Sandoa	Forest Department	200	64	794	Refer Appendix 4 (b) for Land records/ NOCs	
71	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed MBR Bhangroh	Burahta	Forest Department	200	64	205	Refer Appendix 4 (b) for Land records/ NOCs	




SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
72	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR ShilaKandhi	Samnos	Forest Department	200	64	516	Refer Appendix 4 (b) for Land records/ NOCs	
73	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Bhaloti	Dhisti	Forest Department	200	64	531	Refer Appendix 4 (b) for Land records/ NOCs	
74	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Dari	Dari	Forest Department	100	81	1026	Refer Appendix 4 (b) for Land records/ NOCs	
75	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Khananu	Shala	Forest Department	150	64	760/659/582	Refer Appendix 4 (b) for Land records/ NOCs	




SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
76	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Odi	Shala	Forest Department	100	64	1	Refer Appendix 4 (b) for Land records/ NOCs	
77	MS9	WSS Tuna Dari, WSS Barjohru, WSS Shangri Samnous, WSS KhananooSalyandi, WSS BalhriKaudu Ra Kutala and WSS Jail Bhalothi	Proposed SR Bhauli Top	Taraur	Forest Department	500	64	729	Refer Appendix 4 (b) for Land records/ NOCs	
78	MS15	WSS KhumbaGowata	Gowata Nallah Source	DPF Poinal	Forest Department	40	length – 20 m and channel 50 m long	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
79	MS15	WSS KhumbaGowata	Proposed WTP at Gowata Nallah	DPF Poinal	Forest Department	500	340	N/A	Refer Appendix 4 (b) for Land records/ NOCs Refer Appendix 5 for Revenue	


SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
									Refer Records, Khasra Map and Google Earth Imagery	
80	MS15	WSS KhumbaGowata	Proposed SR Gowata	Ghawata	Forest Department	100	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
81	MS15	WSS KhumbaGowata	Proposed SR Khumba	Khumba	Forest Department	100	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
82	MS15	WSS KhumbaGowata	Proposed SR Swar	Swar	Forest Department	100	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	

SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
83	MS15	WSS BaneshthiJiyog	Proposed Sources and Sumpwellat Sadair Nallah	DpfBhayankar	Forest Department	40	length – 20 m and channel 50 m long	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
84	MS15	WSS BaneshthiJiyog	Proposed WTP Sadair Nallah	DpfBhayankar	Forest Department	800	485	N/A	Refer Appendix 4 (b) for Land records/ NOCs Refer Appendix 5 for Revenue Records , Khasra Map and Google Earth Imagery	
85	MS15	WSS BaneshthiJiyog	Proposed SR Gadog	Jhungi	Forest Department	100	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	

SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
86	MS15	WSS Baneshthijyog	Proposed SR Jhungi	Jhungi	Forest Department	100	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
87	MS15	WSS ChurasaniMasolag	Proposed Intake and Sumpwell at Nanonta Nallah	DpfChrasani	Forest Department	100	length – 20 m and channel 50 m long	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
88	MS15	WSS ChurasaniMasolag	Proposed WTP at Nanonta Nallah	DpfChrasani	Forest Department	600	400	N/A	Refer Appendix 4 (b) for Land records/ NOCs Refer Appendix 5 for Revenue Records , Khasra Map and Google Earth Imagery	

SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
89	MS15	WSS ChurasaniMasolag	Proposed SR Chanwara	Chanwara	Forest Department	100	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
90	MS15	WSS Kutachi	Proposed Intake and Sumpwellat Chuhar Nallah	Bari Charand	Forest Department	100	length – 20 m and channel 50 m long	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
91	MS15	WSS Kutachi	Proposed WTP at Chuhur Nallah	Bari Charand	Forest Department	600	485	N/A	Refer Appendix 4 (b) for Land records/ NOCs. Refer Appendix 5 for Revenue Records , Khasra Map and Google Earth Imagery	

SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
92	MS15	WSS Kutachi	Proposed SR Khatidhar	Kutahachi	Forest Department	100	81	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
93	MS15	WSS Kutachi	Proposed Intake and Sumpwell at Narara Nallah	Raswala	Forest Department	50	length – 20 m and channel 50 m long	N/A	Refer Appendix 4 (b) for Land records/ NOCs	
94	MS15	WSS Kutachi	Proposed WTP at Narara Nallah	Raswala	Forest Department	500	380	N/A	Refer Appendix 4 (b) for Land records/ NOCs Refer Appendix 5 for Revenue Records , Khasra Map and Google Earth Imagery	

SN	Grid	Scheme Name	Project Component	Location	Ownership	Area of land available at the location (m ²)	Area required (m ²)	Khasra No.	Remarks	Photo of Land
95	MS15	WSS Kutachi	Proposed SR ChakaraNa I	Raswala	Forest Department	100	64	N/A	Refer Appendix 4 (b) for Land records/ NOCs	

NA- Not Allotted. Revenue Records and Khasra Maps are not available for the said Land parcels falling on Forest Land as **No Land Settlement or Marking** has been done for the parcel.

Source: Site visit, transect walk, Sample survey, DPRs and Technical Documents 2020-2021.

34. Road network in the subproject area are classified as National highways, State Highways, Major district roads, other district roads, village roads and katcha path in case habitations. National highways are generally of 14m of width bituminous road, State highways are generally 8m major district road is generally 6 m in width bituminous road, Other district road are of 5m width bituminous road and village roads are generally 3.5m bituminous road or brick roads. Maximum dia pipes in our proposal are less than 200mm dia pipes which can be easily laid in shoulders of the roads.

35. As per the indicative alignment, pipelines will primarily traverse one National highway, NH 13 and two State highways, SH 13, and SH 26, at various locations which will be further assessed during the time of DMS. Google Earth Images depicting pipelines traversing through major roads are appended in **Appendix 7**.

36. 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. Hence, no temporary economic impacts are anticipated due to laying of water supply network.

37. Details of proposed Water Supply network, available ROW for roads, dia. and length of pipes are presented in Table 11.

Table 11: Summary of Proposed Water Supply Network

S. No.	Details of Network	Length (in meter)	Road Width (in meter)	Dia of Pipe
1	Total Water Supply Network in Villages	2,88,415	1 m to 12 m	25 mm to 200 mm
2	Total Water Supply Network in Major road - NH/SH	8,655	6 m to 14 m	
3	Total Water Supply Network in village roads, transect walks, Kuccha paths, forest trail paths etc	2,79,760	1 m to 4 m	

Source: Preliminary Detailed Project Report, 2020-21.

38. Grid wise details regarding proposed routes of Rising Mains, Gravity Mains and Distribution Network are presented in Table 12.

Table 12: Grid Wise Details of Proposed Routes for Rising Mains, Gravity Mains and Distribution Networks

Grid	Rising Mains	Gravity Mains	Distribution Network
MS-1	<p>RM-1: From Source to WTP through forest trails</p> <p>RM-2: From WTP/ PH to MBR Dev Dhar through forest trails, katcha pathways and internal village roads.</p> <p>No NH/ SH will be crossed or traversed by the proposed Rising Mains</p>	<p>Gravity Mains will majorly follow internal district/ village roads usually 4-6 m wide and katcha pathways.</p> <p>The GM line will cross and traverse NH 3 and SH 26 at various places as appended in Appendix 7.</p>	<p>Distribution network will traverse through forest trails, internal district/ village roads and katcha pathways.</p> <p>The proposed Distribution line will cross SH 26 at various places as appended in Appendix 7.</p>
MS-2	<p>Rising main is proposed from WTP to MBR Patron. The pipeline will traverse through forest trails and katcha pathways. It will cross Tanglu road (width 4m) at one place.</p> <p>No NH/ SH will be crossed or traversed by the proposed RM</p>	<p>Gravity Mains will majorly follow internal district/ village roads usually 4-6 m wide and forest trails.</p> <p>No NH/ SH will be crossed or traversed by the proposed GM.</p>	<p>Distribution network will traverse through forest trails, internal district/ village roads and katcha pathways.</p> <p>The proposed Distribution line will cross SH 26 at various places as appended in Appendix 7.</p>
MS-3	<p>RM-1: From Source to WTP through forest trails</p> <p>RM-2: From PH near WTP to Proposed PH-2 forest trails and katcha pathways.</p> <p>RM-3: From proposed PH-2 to Proposed PH near MBR-1 through forest trails and katch pathways.</p> <p>RM-4: From Proposed PH near MBR-1 to proposed MBR-2 through forest trails and katch pathways.</p> <p>No NH/ SH will be crossed or traversed by the proposed Rising Mains</p>	<p>Gravity Mains will traverse through internal district/ village roads including Jwalapur road and DPF nirahal road (4-6 m wide) and Katcha pathways.</p> <p>No NH/ SH will be crossed or traversed by the proposed GMs.</p>	<p>Distribution lines will traverse through internal district/ village roads including Jwalapur road and DPF nirahal road (4-6 m wide) and Katcha pathways.</p> <p>No NH/ SH will be crossed or traversed by the proposed DN.</p>



Grid	Rising Mains	Gravity Mains	Distribution Network
MS-5	<p>RM-1: From proposed WTP near canal to proposed MBR-1 (Majhrot). The RM will traverse through BBMB owned vacant land, bridge over canal and further through internal village roads & katch pathways to Proposed MBR-1.</p> <p>RM-2: From WTP/ PH to MBR Dev Dhar through forest trails, katcha pathways and internal village roads.</p> <p>RM will traverse through SH 13 as appended in Appendix 7.</p>	Gravity Mains will traverse through SH 13 (appended in Appendix 7), internal district/ village roads and Katcha pathways.	Distribution lines will traverse through SH 13 (appended in Appendix 7), internal district/ village roads and Katcha pathways.
MS-6	There is no rising main proposed in this grid	Gravity Mains will traverse through SH 13 and SH 21 (appended in Appendix 7), internal district/ village roads and Katcha pathways.	Distribution lines will traverse through SH 13 and SH 21 (appended in Appendix 7), internal district/ village roads and Katcha pathways.
MS-8 & MS-9	<p>RM-1: From proposed WTP to proposed MBR lower Chandyas. Pipeline will traverse through Jahal road (4m wide) and through katch pathways in forest.</p> <p>RM-2: From proposed WTP to proposed MBR-2 Salog. Pipeline will traverse through internal village road and through katch pathways.</p> <p>No NH/ SH will be crossed or traversed by the proposed Rising Mains</p>	Gravity Mains will majorly follow internal district/ village roads and katcha pathways. The GM line will not cross and traverse any NH or SH.	<p>Distribution lines will majorly follow internal district/ village roads and katcha pathways.</p> <p>The DN lines will not cross and traverse any NH or SH.</p>
MS-15	There is no rising main proposed in this grid	Gravity Mains will traverse through SH 13 (appended in Appendix 7), internal district/ village roads and Katcha pathways.	Distribution lines will traverse through SH 13 (appended in Appendix 7), internal district/ village roads and Katcha pathways.

39. Sample Survey of Indicative Pipeline Alignment at Various Location in MZ02 and of Market Places with Google Earth Maps and Site Photographs are appended in **Appendix 9** respectively.



40. Keeping this in view, physical verification/field observations/ sample survey were made 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.


41. Photographs of Major Roads, Internal district roads, forest trails and kaccha pathways leading to the Proposed Pipelines routes along with Pipe dia, Pipe material and Width are presented in Table 13.




Table 13: Photographs of Major Roads, Internal district roads, forest trails and kaccha pathways leading to the Proposed Pipelines routes



S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
1	SH 13 near Devi Bhadrakali Temple	4-6 meter	100-200 mm	HDPE/ GI	 <p>A photograph showing a paved road in a rural area. On the left, there is a blue building with a red roof, likely a temple. The road is wide and appears to be made of asphalt or concrete. There are some trees and utility poles in the background. The sky is overcast. In the bottom right corner, there is a timestamp: 2021/05/11 11:22.</p>
2	Shimla-Tatapani-Mandi Road near Shiv Mahadev Temple	4-6 meter	50-100 mm	HDPE/ GI	 <p>A photograph showing a paved road in a town area. On the left, there is a white SUV parked. The road is wide and appears to be made of asphalt or concrete. There are buildings and utility poles in the background. The sky is overcast.</p>




S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
3	NH-3 Near Himachal Pradesh Gramin Bank, Botalyahar	4-6 meter	100-200 mm	HDPE/ GI	
4	Kathlag road in village Kathlag	4-6 meter	50-100 mm	HDPE/ GI	




S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
5	Rewalsar Road, Randhara	4-6 meter	50-100 mm	HDPE/ GI	
6	Unnamed Village Road	4-6 meter	150 mm	HDPE/ GI	

S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
7	Unnamed transect path	1-3 meter	80 mm	HDPE/ GI	 A photograph showing a narrow dirt path or transect path cutting through a dense, wooded area. The path is surrounded by various trees and undergrowth, with a prominent tree trunk visible on the right side.
8	Unnamed Village Road	2-4 meter	100 mm	HDPE/ GI	 A photograph of a wider dirt road or village road. The road is unpaved and appears to be in a rural or semi-rural setting. There are green fields on either side, some trees, and a small stream or water body visible in the background.


S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
9	Unnamed Forest Trail	1-2 meter	50 mm	HDPE/ GI	
10	Unnamed Village Road	2-4 meter	100 mm	HDPE/ GI	
11	Unnamed Village Road	1-3 meter	50-100 mm	HDPE/ GI	

S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
12	Unnamed Kaccha Path	1-3 meter	50-100 mm	HDPE/ GI	 A photograph showing a dirt path with a pipe visible in the ground. The path is surrounded by vegetation and rocks.
13	Unnamed Kaccha Path	1-3 meter	50-100 mm	HDPE/ GI	 A photograph showing a dirt path with a pipe visible in the ground. The path is surrounded by vegetation and rocks.

S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
14	Unnamed Kaccha Path	1-2 meter	25-100 mm	HDPE/ GI	
15	Unnamed Forest Trail	1-3 meter	25-100 mm	HDPE/ GI	
16	Unnamed Forest Trail	1-3 meter	25-100 mm	HDPE/ GI	


S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
17	Unnamed Forest Trail	1-2 meter	25-40 mm	HDPE/ GI	
18	Unnamed Forest Trail	1-2 meter	25-50 mm	HDPE/ GI	
19	Unnamed Road	4-5 meter	50-100 mm	HDPE/ GI	

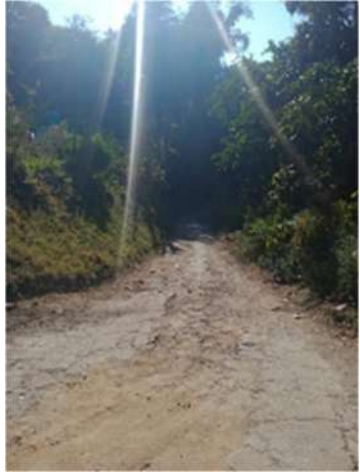

S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
20	Unnamed Internal Village Road	3m	50-80 mm	HDPE/ GI	
21	Unnamed Internal Village Road	2-3m	50-100 mm	HDPE/ GI	



S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
22	Unnamed Internal Village Road	2-3 m	50-100 mm	HDPE/ GI	



42. Details of proposed Rising Mains from proposed water pumping stations along with photograph of nearby areas are presented in Table 14.




Table 14: Photographs of Rising Main for the Water Pumping Station



S. No	Name	WTP Capacity	RM Starting Point	RM Ending Point	Location	Design Velocity in RM	Length of Pumping Main	Dia of pipe	Road Width	Photograph of the nearby area
1	Grid MS-1 RM from Source to WTP	1.2 MLD	Intake point on Beas River	Raw Water tank at Proposed 1.2 MLD WTP	Along river Beas at Raghu Naith ka Padhar	0.705 m/s	49 m	150 mm	1-3 katcha pathway	

S. No	Name	WTP Capacity	RM Starting Point	RM Ending Point	Location	Design Velocity in RM	Length of Pumping Main	Dia of pipe	Road Width	Photograph of the nearby area
2	Grid MS-1 RM from proposed Pump house in Village Sain Mohalla to MBR Dev Dhar	1.2 MLD	Raw Water tank at Proposed 1.2 MLD WTP	MBR Dev Dhar	Village Sain Mohalla	0.705 m/s	5850 m	150m m	4 to 8 meter	
3	Grid MS-2 RM from Pump house in Bhanchw ali next to WTP to MBR Patron	255 KLD	Proposed WTP in Bhanchw ali	MBR Patron	In Village Bhanchw ali	0.8 m/s	1286m	80mm	1 to 3 meter	

S. No	Name	WTP Capacity	RM Starting Point	RM Ending Point	Location	Design Velocity in RM	Length of Pumping Main	Dia of pipe	Road Width	Photograph of the nearby area
4	Grid MS-3 RM from Intake well to WTP at Aut village	0.6 MLD	Intake Well at source	Raw water tank of WTP in Aut Village	In Village Samnos	0.73 m/s	65m	100m m	1 to 4 meter	
5	Grid MS-3 RM from Pump house near proposed WTP- to Sumpwell	600 KLD	Proposed PH near WTP	Proposed Sumpwell	In Village Aut	0.72 m/s	2331m	100m m	2 to 6 meter	

S. No	Name	WTP Capacity	RM Starting Point	RM Ending Point	Location	Design Velocity in RM	Length of Pumping Main	Dia of pipe	Road Width	Photograph of the nearby area
6	Grid MS-3 RM from Pump house Sumpwell to MBR-1 (dhar)	600 KLD	Proposed Sumpwell	Proposed MBR-1 (Dhar)	In Village Kashna	0.72 m/s	1715m	100mm	1 to 3 meter	
7	Grid MS-3 RM from Pump house MBR-1 (dhar) to MBR-2 (Diun Dhar)	600 KLD	PH ar Proposed MBR-1 (Dhar)	Proposed MDR-2 (Diun Dhar)	In Village Kashna	0.76 m/s	5202m	80mm	1 to 3 meter	

S. No	Name	WTP Capacity	RM Starting Point	RM Ending Point	Location	Design Velocity in RM	Length of Pumping Main	Dia of pipe	Road Width	Photograph of the nearby area
8	Grid MS-5 RM from Canal at Rao to MBR-1 (Majhrot)	2.6 MLD	Proposed PH at canal	MBR-1 (Majhrot)	Near Canal Rao next to WTP	0.86 m/s	2859	200m m	3 m wide	
9	Grid MS-5 RM from MBR-1 (Majhrot) to MBR-2 (Darman)	2.6 MLD	PH at MBR-1 (Majhrot)	PH at MBR-2 (Darman)	Village Chambi and Draman	0.93 m/s	2854 m	100 mm	2-3 m wide	
10	Grid MS 8 & 9 RM from proposed Headweir at Samnos to WTP at Samnos	1.1 MLD	Headweir at Samnos	Raw water tank at WTP Samnos	In Village Samnos	0.87 m/s	76m	125m m	1 to 4 meter	

S. No	Name	WTP Capacity	RM Starting Point	RM Ending Point	Location	Design Velocity in RM	Length of Pumping Main	Dia of pipe	Road Width	Photograph of the nearby area
11	Grid MS8 & 9 RM from Proposed PH near WTP to proposed MBR Lower Chandyas	1.1 MLD	Proposed PH near WTP	MBR Lower Chandyas	In Village Samnos	0.79 m/s	2238m	125m m	1 to 4 meter	
12	Grid MS 8 RM from Proposed PH near WTP to proposed MBR-2 Salog	1.1 MLD	Proposed PH near WTP	MBR-2 Salog	In Village Samnos	0.63 m/s	1836m	65mm	3 m wide	

43. During transect walk, it was also observed that in a few locations where pipe laying is proposed through forest, the trial/walkway are narrow (width varies from 1 m to 2m) and where pipe laying is proposed through internal village roads/kachha path, the walkway are compact (width varies from 2m to 6m). The water supply pipelines are proposed primarily in the village which is predominantly residential in nature. The population living in these areas is from low to middle income groups. At present, the proposed areas have some pipe water supply infrastructure which is over 20 years old with several leakages and damages.

44. The meeting and discussion made with the design team confirmed that no trenchless work will be taken up in the above-mentioned areas and will be further confirmed during DMS. In case of narrow roads to avoid inconvenience to the households and people using the roads/pathways on regular basis. The depth of the pipe is fixed at 0.6 m or 2 feet for all diameter and length of pipe. 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, if any 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.

45. Pipelaying works are proposed in areas with no or 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 500m at a time and refill the excavated area within the stipulated timeline. Construction contracts will include the above provisions. The grid wise details of the proposed water pipeline networks with diameter are appended in **Appendix 2**.

46. **Indigenous Peoples.** No land acquisition or involuntary resettlement impacts are assessed as result of the subproject. MZ-02 is not located in a scheduled area³ as per Government of India 2018 notification. The Package has a small proportion of population (1.31%) classified as scheduled tribe,⁴ 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 indigenous peoples⁵ 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.

⁴ "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."

Sources :<https://pib.gov.in/pressrelease/framepage.aspx?PRID=1514486>,
<https://vikaspedia.in/social-welfare/scheduled-tribes-welfare/scheduled-tribes-in-india>
https://ncst.nic.in/sites/default/files/2017/office_order/798.pdf

⁵ADB 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.

Table 15: ST Population MZ02 (Mandi Package-1)

Grid	ST Population	Total Population of the Command Area	Percentage %
MS1	51	6576	0.78
MS2	82	2123	3.86
MS3	287	2988	9.61
MS5	39	14335	0.27
MS6	8	3464	0.23
MS8	0	2645	0.00
MS9	20	2974	0.67
MS15	6	2479	0.24
Total	493	37584	1.31

Source: NRDWP website

VI. INFORMATION DISSEMINATION

47. The DDR will be made available for reference in the offices of the Jal Shakti Vibhag, Project Implementation Unit, Project Management Unit and ADB website for easy access to all stakeholders including the local community of Himachal Pradesh.

VII. CONCLUSION

48. The findings from field visit, sample survey, 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.

49. The written consents from 04 private landowners who are donating land voluntarily have been obtained and appended in the **Appendix 5**. The information of the voluntary land donors is mentioned in the same Appendix.

50. The 32 respective Gram Panchayats have provided No Objection as well as certification of ownership of the ROW of Panchayat roads where laying pipelines are proposed. The documents are appended in Appendix 4 (d).

51. Laying the pipelines may potentially cause temporary disruption to road users, pedestrians and community people – this will be avoided by using proper mitigation measures. Such civil work disruptions will be mitigated during construction by the contractor through simple measures such as provisions of planks for pedestrian access to shops and proper traffic management.

52. It needs to be mentioned that during laying of pipelines along market/village areas or congested places within the Blocks, if any potential access disruptions are identified, the civil works contract for Mandi Zone Package-1 (MZ-02) will have specific provisions related to impact avoidance for pipe laying activities as well as construction work near common property resources (schools, health centers, ICDS Centers, etc.).

53. The works contractor will be required to maintain access to shops and residences or other buildings along pipe alignments and to institutions located close to proposed sites, and safety through hard barricading of excavated alignments/sites. Care will be taken to avoid/mitigate economic impacts through the following measures: (i) announcement of proposed civil works in advance (to enable shop owners to stock up and remain unaffected if goods vehicles are unable to reach them during construction);(ii) provision of planks to ensure pedestrian access; (iii) careful timing of implementation to avoid peak sale hours/days or school timings; (iv) night work in commercial areas, where possible; (v) minimizing construction period to the extent possible; (vi) assistance to mobile vendors if any present during construction, to shift nearby; (vii) signage with project details and contact details for grievance redress; and (viii) proper traffic management; (ix) Notice to harvest standing seasonal crops and if notice cannot be provided compensation for affected Crops/plants and trees to be provided at market rate; Work schedule will avoid harvest season and Harvesting prior to pipe laying will be ensured to the extent possible. These measures will be part of the contract and will be implemented through it, with careful monitoring by the concerned PIU.

54. JSV may informally offers through its contractors, one operation related job per site obtained through Voluntary Land Donation, to any one member of the households of land donor, jointly nominated by them.

55. 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 committee members, and residents, and accordingly, construction activities will be planned. After laying pipes, the lane/road will be restored to its original condition or improved condition (including bitumen, cement concrete and interlocking tiles as applicable).

56. Abudgetary provision will be made for costs likely to be incurred by JSV for completion of all formalities related to land donation and updating of this DDR. This includes provisions towards DDR updating cost, consultation, communication grievance redress mechanism and contingencies.

57. As per the consultations with the Four (4) private land donors, it was observed that they are facing water scarcity and poor water quality with intermittent supply. Therefore, the landowners are voluntarily donating the land for personal and community benefits for the good water quality and 24x7 water supply.

VIII. NEXT STEPS

58. 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.

59. During the DMS, if any involuntary resettlement impact is identified, a resettlement plan would be prepared.

60. 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.

61. Process followed in independent third-party certification, documentation of acceptability of third party to both JSV and the land owners;

62. The certificate issued by the third party for the project proponent will confirm the following: (a) that no coercion was involved in the process, and (b) The third party will submit a certificate as witness to the Land Donation process as well as assistance provided. The third-party certificate needs to be appended to the updated DDR;

63. On completion of Land Donation, the land parcels need to be transferred to JSV's ownership and the document of ownership will be appended in the updated DDR;

64. Copies of Land Records/ NOCs from the concerned departments and Land transfer documents of all components will be appended in the updated DDR prior to contract award.

65. Required NOCs for laying of pipeline from Forest Department/ PWD/ NHAI will be included in the updated DDR.

66. Land area related information for proposed project components will be appended in the updated DDR prior to contract award.

67. Gift deeds executed by the land donors need to be included in the updated DDR. Missing photograph of one donor to be also included in the DDR prior to contract award.

68. Consultation with remaining two (2) land donors to be included in the updated DDR prior to contract award.

Appendix 1: Grid Wise Population Projection in MZ02

Grid MS-1

Sr. No.		Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	LWSS Chambi Jola JahalPadhiun	Fatebahan	Fatebahan	187	206	213	237	260	283
2			Tarswal	134	148	153	170	186	203
3		Ghera	Ghera	323	356	368	408	449	489
4			Khinder	48	53	55	61	67	73
5		Manthala	Manthala	107	118	122	136	149	162
6			Rachwana -1st	328	361	374	415	456	497
7		Maswari	Chajwari	70	77	80	89	98	106
8			Devdhar	59	65	68	75	82	90
9			Maswari	100	110	114	127	139	152
10		Talyahar	Bag	422	465	481	533	586	639
11			Talyahar	295	325	336	373	410	447
12		Chambi	Chambi	237	261	270	300	329	359
13			Narhlu	213	235	243	269	296	323
14		Gaddle	Gaddle	345	380	393	436	479	522
15			Labana	224	247	255	283	311	339
16			Rachwana -II	50	55	57	64	70	76
17		Jahal	Jahal	138	152	157	175	192	209
18			Masleyan	131	145	150	166	182	199
19		Jolla	Ratti Pull	70	77	80	89	98	106
20			Jolla	190	209	217	240	264	288
21	Padhiun	Padhiun	360	396	410	455	500	545	
22	LWSS Kathlag	Kathlag	Banyour	112	124	128	142	156	170
23			Kathlag	273	301	311	345	379	413
24			Sakale	284	313	324	359	395	430
25			Sakal -II	187	206	213	237	260	283
26	LWSS Sai Alathu	Alathu	Alathu	269	296	306	340	374	407
27			Gagehar	85	94	97	108	118	129
28			Hawani	115	127	131	146	160	174
29			Jagnah	93	103	106	118	130	141
30			Sai	226	249	258	286	314	342
31	WSS Sain	Sain	Sain	180	198	205	228	250	273
			Total	5967	6576	6803	7552	8295	9039

Grid MS-2

Sr. No.	Name of Scheme	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	LWSS RANDHARA	RANDHARA	CHACHOLA	177	195	201	224	246	268
2			RANDHARA	546	601	621	690	758	826
3			BANAIT	475	523	541	600	660	719
4			RANGHWANU	69	76	79	88	96	105
5	LWSS SRAIN PATRON	Janed	BARDWAN	58	64	66	74	81	88
6			BUSHAL	112	124	128	142	156	170
7			MANDLOG	136	150	155	172	189	206
8			SRAIN	109	120	124	138	152	165
9			PATRON	118	130	135	149	164	179
10			TANDI	127	140	145	161	177	193
Total				1927	2123	2195	2438	2679	2919

Grid MS-3

Sr. No.	Name of Scheme	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	DuggliChhalla	Dhangshi	Dhangshi	269	296	306	340	373	407
			KotDhalyas	Khalidhayana	164	180	187	207	228
		KotDhalyas		320	352	364	404	444	484
		Palechhari		139	153	158	175	193	210
		Piun	Jor	135	149	154	170	187	204
			Piun	116	128	132	146	161	175
			Snod	46	51	52	58	64	70
		Pub	Pub	233	256	265	294	323	352
			Tharu	125	138	142	158	173	189
		Ropa	Ropa	115	127	131	145	160	174
		Kashna	Bachhira	34	37	39	43	47	51
			Jalla	219	241	249	276	304	331
			Kasna	207	228	235	261	287	313
			Sallagi	112	123	127	141	155	169
		Khini	Baggi	102	112	116	129	142	154
			Dhar-I	72	79	82	91	100	109
			Dhar-II	52	57	59	66	72	79
Khini	115		127	131	145	160	174		
2	Shala Shara	Shara	Gaddhar	27	30	31	34	37	41
			Jadwain	41	45	47	52	57	62
			Shara	73	80	83	92	101	110
Total				2716	2988	3089	3429	3768	4108

Grid MS-5

Sr. No.	Scheme Name	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	WSS Behli Mahadev	Ghangal	Ghangal-I	877	965	998	1108	1217	1327
2			Ghangal-II	826	909	940	1043	1147	1250
3		Mahadev	Dhanotu	619	681	705	782	859	937
4			Guknu	243	268	277	307	338	368
5			Mahadev	1610	1771	1832	2033	2234	2436
6			Nagwan	454	500	517	574	630	687
7			Rihan	279	307	318	353	388	422
8		Khatarwar	Samkal	489	538	557	618	679	740
9			Khatarwar	656	722	747	829	911	993
10		Harwani	Harwani	376	414	428	475	522	569
11			Masoh	52	58	60	66	73	79
12		Upper Behli	Upper Behli	748	823	851	945	1038	1132
13		Chowk	Chowk-i&ii	910	1001	1036	1149	1263	1377
15		Chowk-II	Chowk-II	1366	1503	1554	1725	1896	2067
16		Neri	Neri	336	370	383	425	467	509
17			Channeri	44	49	51	56	62	67
18		Bharari	Sakrah	418	460	476	528	580	633
19			Bharari	433	477	493	547	601	655
20		Panyash	Panyash	132	146	151	167	184	200
21			Sahkara	116	128	132	147	161	176
22			Sangri	85	94	97	108	118	129
23		Kangar	Jawala	130	143	148	165	181	197
24			Sushan	73	81	84	93	102	111
26	Kanger		230	253	262	291	320	348	
27	Draman		251	277	286	317	349	380	
28	Draman	Kuhri	63	70	72	80	88	96	
29		Sutaina	75	83	86	95	105	114	
30		Chambi	575	633	655	726	798	870	
31	Chambi	Majhrot	92	102	105	117	128	140	
32		Darba	350	385	399	442	486	530	
33		Kamroh	112	124	128	142	156	170	
					13020	14335	14828	16453	18081

Grid MS-6

S. No.	Scheme Name	Village	Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	WSS BEHI SERHI	BAHI	SARAH I	69	76	79	88	96	105
2			SADAIS	138	152	157	175	192	209
3			GARSAAL	15	17	18	19	21	23
4			CHAKDAI	10	11	12	13	14	16
5			BAHI 2	8	9	10	11	12	13
6			RIKHLANAL	3	4	4	4	5	5
7			DARON	5	6	6	7	7	8
8			SHAO	5	6	6	7	7	8
9			SERI	5	6	6	7	7	8
10			JARAL	27	30	31	35	38	41
11			KHOLOG	8	9	10	11	12	13
12			MATREHAR	182	201	208	230	253	276
13			NALU DHAR	108	119	123	137	150	164
14			NALU DHAR 2	20	22	23	26	28	31
15			BAHI	17	19	20	22	24	26
16		DPF KELOSARAHIE	KELODHAR	522	575	594	660	725	790
17	WSS BAJHO BHABI PHASE-I	BAKHROT	BAKHROT	121	134	138	153	168	184
18			CHAPRAH	12	14	14	16	17	19
19			JHANO G	42	47	48	54	59	64
20			NAHOT	56	62	64	71	78	85
21			PALOG	78	86	89	99	109	118
22			PETLA	47	52	54	60	66	72
23		KUFRI DHAR	DHINGLU DHAR	25	28	29	32	35	38
24			JALARI	40	44	46	51	56	61
26	WSS DHAR KHANDLU	DHAR KANDHLU	DHAR	40	44	46	51	56	61
27			DHARKANDLU	61	68	70	78	85	93
28			JOHAR	40	44	46	51	56	61
29			KAITHO	101	112	115	128	141	153
30			KANDLU	43	48	49	55	60	66
31				BALASO	BAGO	49	54	56	62
32			BALASO	40	44	46	51	56	61
33			TORAN	35	39	40	45	49	53
34	WSS SANS	SANS	SHANS	62	69	71	79	87	94
35			BARNOL	74	82	85	94	103	112
36			JHINJANAL	15	17	18	19	21	23
37			SUNHO	31	35	36	40	44	47
38			DALTA DAON	15	17	18	19	21	23
39	WSS PANGNA NAGROWN PHASE-II	PANGNA	PANGNA	519	571	591	656	721	785
40		NAGRAUN	NAGRAON	325	358	370	411	451	492
41	WSS MASHOG KOTLU PHASE-III	MASHOG	DMED	66	73	76	84	92	100
42			KOTLU	16	18	19	21	23	25
43			MASHOG	38	42	44	48	53	58

			TOTAL	3133	3464	3585	3980	4366	4759
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Grid MS-8

Sr. No.	Scheme name	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	WSS BHURLA	BHURLA	BHURLA	213	235	243	269	296	323
2	WSS GER KUNSOT	KUNSOT	KUNSOT	56	62	64	71	78	85
3			KUTHEHAR	80	88	91	101	111	121
4			SERI	73	81	84	93	102	111
5			JHAMBER	200	220	228	253	278	303
6		GER	GER	44	49	51	56	62	67
7	WSS BAG KARNALA	BAG	BAG	248	273	283	314	345	376
8		KARNALA	KARNALA	265	292	302	335	368	401
9	WSS BHAGAR TROHI	BAG	TROHI	67	74	77	85	93	102
10	WSS SHALLA BHUSHLA	BAKHDOG	RADA	36	40	41	46	50	55
11			BAKHROG	80	88	91	101	111	121
12			BHUSHLA	237	261	270	300	329	359
13		SHALA	SHALA	471	519	536	595	654	713
14	WSS SANDOA	SANDOA	SANDOA	268	295	305	339	372	406
15			SAKHLOT	61	68	70	78	85	93
				2399	2645	2736	3036	3334	3636

Grid MS-9

Sr. No.	Scheme name	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	WSS SHANGRI SAMNOUS	SAMNOS	SHANGRI	107	118	122	136	149	162
2			BANISERI	43	48	49	55	60	66
3			SHILAKANDI	54	60	62	69	75	82
4			SAMNOS	63	70	72	80	88	96
5	WSS JAIL BHALOTHI	DHISHTI	JAIL	227	250	259	287	315	344
6			KHANDILI	170	187	194	215	236	258
7			BHALOTI	115	127	131	146	160	174
8		TUNA	TUNA	193	213	220	244	268	292

Sr. No.	Scheme name	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
9	WSS TUNA DARI	DARI	DARI	451	497	514	570	626	683
10	WSS KHANANOO SALLYANDI	SHALA	KHANANU 1	36	40	41	46	50	55
11			KHANANU 2	41	46	47	52	57	63
12			SALLYANDI	39	43	45	50	55	59
13	WSS BARJOHRU	BARJOHRU	ODI	46	51	53	59	64	70
14			KUN	42	47	48	54	59	64
15			KHANIPRA	36	40	41	46	50	55
16			BARJOHRU	73	81	84	93	102	111
17			CHALAHAR	57	63	65	72	80	87
18	WSS BALHRI KAUDU RA KUTALA	BALHRI	BALHRI 1	90	99	103	114	125	137
19			BALHRI 2	57	63	65	72	80	87
20		TARUR	RAUNA KOTHI	32	36	37	41	45	49
21			TARAI 1	69	76	79	88	96	105
22			TARAI 3	13	15	15	17	19	20
23			TARAI 2	66	73	76	84	92	100
24			KAUDOO RA KUTLA	59	65	68	75	82	90
25			TARAUR	99	109	113	125	138	150
26			BAUHLI	182	201	208	230	253	276
27		BAG	114	126	130	144	159	173	
28		BALHRI	KAPHLOO	118	130	135	149	164	179
				2692	2974	3076	3413	3747	4087

Grid MS-15

Sr. No.	Name of Village	Name of Habitation	Population					
			2011	2019	2022	2032	2042	2052
1	Bithri	Bithari-1	153	169	175	194	213	232
2		Bithari-2	34	38	39	43	48	52
3		Godan	20	22	23	26	28	31
4	D.p.f. Mahasu	Khamarla	254	280	289	321	353	385
5		Sharan	109	120	124	138	152	165
6	DpfBarsundha	Jhery	3	4	4	4	5	5
7	DpfChhayaniDiant	Larayo	31	35	36	40	44	47
8	Kutachi	Kathoun	41	46	47	52	57	63
9		Kaudalu	28	31	32	36	39	43
10		Kharan	100	110	114	127	139	152
11		Khati Dhar	21	24	24	27	30	32
12		Kutachi	142	157	162	180	198	215

Sr. No.	Name of Village	Name of Habitation	Population					
			2011	2019	2022	2032	2042	2052
13		Lohana	71	79	81	90	99	108
14	Serkalan	Ser Kalan -2	48	53	55	61	67	73
15		Ser Kalan-1	52	58	60	66	73	79
16	Chanwara	Chanwara	49	54	56	62	68	75
17		Majharla	17	19	20	22	24	26
18	Kutnas	Kutnas	54	60	62	69	75	82
19		Narhar	24	27	28	31	34	37
20		Narshot	39	43	45	50	55	59
21		Setan	8	9	10	11	12	13
22	Raswala	Jhoth	14	16	16	18	20	22
23		Raswala	82	91	94	104	114	125
24		Sanar	9	10	11	12	13	14
25	Jhungi	Baraut	3	4	4	4	5	5
26		Barjog	24	27	28	31	34	37
27		Charog	43	48	49	55	60	66
28		Dharmour	36	40	41	46	50	55
29		Jaharu	6	7	7	8	9	10
30		Jhungi	70	77	80	89	98	106
31		Prauthi	38	42	44	48	53	58
32		RopriNal	22	25	26	28	31	34
33		Sakohar	36	40	41	46	50	55
34		Satohi	47	52	54	60	66	72
35	Sandara	Jyog	65	72	74	83	91	99
36		Shandra	89	98	102	113	124	135
37		Shaya	83	92	95	105	116	126
38	Shadiar	Dharuion	10	11	12	13	14	16
39	Chhol	Chhol	29	32	33	37	41	44
40	ChhotiKhanyari	ChhotiKhanyari	35	39	40	45	49	53
41	Dharwar	Dharwar	24	27	28	31	34	37
42		Malar	17	19	20	22	24	26
43		Swar	15	17	18	19	21	23
44	Ghawata	Ghawata-1	29	32	33	37	41	44
45		Ghawata-2	44	49	51	56	62	67
46	Khumba	Khumba-1	44	49	51	56	62	67
47		Khumba-2	22	25	26	28	31	34
			2234	2479	2564	2844	3126	3404

Appendix 2: Grid Wise details of Pipeline Network with Diameter

Table 2-1: Details of Pipes for Rising Main

Grid	Length of Pipe (Rising Main)						
	50 mm	65 mm	80 mm	100 mm	125 mm	150 mm	200 mm
MS-1	0	0	0	0	0	5899	0
MS-2	0	0	1286	0	0	0	0
MS-3	0	0	5191	3056	0	0	0
MS-5	0	0	0	2854	0	0	2859
MS-6	0	0	0	0	0	0	0
MS-8	0	1836	0	0	2314	0	0
MS-9	0	0	0	0	0	0	0
MS-15	0	0	0	0	0	0	0
Total Length	0	1836	6477	5910	2314	5899	2859

Table 2-2: Details of Pipes for Gravity Main

Grid	Length of Pipe (Gravity Main)					
	50 mm	65 mm	80 mm	100 mm	125 mm	150 mm
MS-1	4951	4033	1997	4836	0	0
MS-2	2963	732	2203	0	0	0
MS-3	10	11047	2056	0	0	0
MS-5	35	2304	3209	1185	2217	1432
MS-6	3469	16404	4672	0	0	0
MS-8	483	11875	0	0	0	0
MS-9	5631	7106	6526	0	0	0
MS-15	6216	3611	1439	4887	0	0
Total Length	23758	57112	22102	10908	2217	1432

Table 2-3: Details of Pipes for Distribution Network

Grid	Length of Pipe – Distribution network								
	25 mm	32 mm	40 mm	50 mm	65mm	80 mm	100 mm	125 mm	150 mm
MS-1	0	3824	1361	1827	12994	800	0	0	0
MS-2	0	432	2292	6198	3199	0	0	0	0
MS-3	0	1436	3459	6059	5398	0	0	0	0
MS-5	0	0	3935	3564	9974	2161	3630	702	1496
MS-6	3778	2135	3715	5384	7879	1594	0	0	0
MS-8	0	316	1622	0	8242	0	0	0	0
MS-9	19	1075	3235	3928	5114	0	0	0	0


Grid	Length of Pipe – Distribution network								
	25 mm	32 mm	40 mm	50 mm	65mm	80 mm	100 mm	125 mm	150 mm
MS-15	267	3018	2403	5008	11562	548	0	0	0
Total Length	4064	12236	22022	31968	64362	5103	3630	702	1496



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	49	29	20	<ul style="list-style-type: none"> • Present Water supply scenario of the area • Subproject components and water supply system • Household connections • 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 water supply services.


Details of Consultations


S. No.	Date	Name of Participants	Location/Gram Panchayat	Topic discussed	Photographs
1.	05.11.2020	Mr. Subhash Kumar Mr. Mahender Singh Mr. Pradeep Kumar Mr. Dalat Ram Mr. Harish Singh Mr. Hem Raj Mr. Goverdhan Singh Mr. K.L. Verma	Talyahar village, Talyahar Panchayat	The community consultation was held at Talyahar village belonging to Talyahar Panchayat. Issues raised by public were about the irregular supply of water (once in 3 days – 30 min to 1 hour), low pressure in their taps when other households fill water, leakages of water pipelines, thin distribution pipelines being broken etc. Certain habitations were being served by far off water reservoirs with long	

S. No.	Date	Name of Participants	Location/Gram Panchayat	Topic discussed	Photographs
				<p>water transmission mains with leakages, leading to significant delays for few habitations like Jolla. The concept of Automation and its benefits were elaborated. The smart water metering was explained, and community was willing to pay the tariff for the provided household connections.</p> <p>Alternative arrangement of water supply, if required during execution phase would be ensured.</p>	
2.	10.11.2020	<p>Ms. Kamli Ms. Briti Devi Ms. Gudi Devi Ms. Geeta Devi Ms. Bema Devi Ms. Chinta Devi Ms. Nirmala Devi Ms. Madhi Ms. Seema Devi Ms. Savitri</p>	<p>Jalla habitation, Kashna village, AutPanchayat</p>	<p>The community consultation was held at Kashna village belonging to Aut Panchayat</p> <p>Issues raised by public were about the irregular supply of water (once in 2 days – 20 min to 40 min), sources drying up causing issues in supply of water in peak summer, leakages of water pipelines etc.</p> <p>Alternative arrangement of water supply, if required during execution phase would be ensured. The</p>	

S. No.	Date	Name of Participants	Location/Gram Panchayat	Topic discussed	Photographs
		Ms. Banti Mr. Karensen Mr. SheshRew Mr. Hem Raj Ms. Rameshwari Mr. Bhawaridut Mr. Jayad Mr. Mast Ram		participants conveyed their support to the project and its benefits. Continuous community consultations will be organized before, during and after execution of the project.	

S. No.	Date	Name of Participants	Location/Gram Panchayat	Topic discussed	Photographs
3.	05.11.2020	Ms. Meera Devi Ms. Nermal Sharma Ms. Norvda Sharma Ms. Satya Devi Ms. Gora Devi	Talyahar Habitation, Talyahar,Panchayat	<p>As stated by Smt. Satya Devi (Gram Pradhan) and others, people store water in their tanks since the water frequency is once in 3 days. Major concern of women were the pipelines being laid above ground. This was causing trouble to pedestrians and when heavy vehicle moves over it, the pipeline easily gets damaged. Other concern was about the issues during pipeline laying through farmlands. The contractor would excavate without intimating the farmers.</p> <p>The participants conveyed their support to the project and its benefits. Continuous community consultations will be organized before, during and after execution of the project.</p>	

S. No.	Date	Name of Participants	Location/Gram Panchayat	Topic discussed	Photographs
4	15.09.2021	Voluntary Land Donor Mr. Achharu Ram	Virtual	<p>The consultation was conducted virtually.</p> <p>Mr. Achharu Ram readily agreed to donate his land and confirmed that he has signed the NOC himself.</p> <p>He raised a major concern that water quality and quantity is insufficient to meet daily needs. Hence, this scheme is required.</p> <p>He is donating the land for personal and community benefits</p>	

S. No.	Date	Name of Participants	Location/Gram Panchayat	Topic discussed	Photographs
5	15.09.2021	Voluntary Land Donor Mr. Bhim Singh	Virtual	<p>The consultation was conducted virtually.</p> <p>Mr. Bhim Singh confirmed that he is voluntarily donating his land for the betterment of the community including himself.</p> <p>He raised a major concern that there is water scarcity in the whole panchayat. He further mentioned that this scheme will highly beneficial for the community.</p> <p>Hence, he is donating the land for the betterment of the community.</p>	

Public Consultation at Kashna Village, Aut Panchayat

Site Visit for Environment and Social Safeguard Documents for Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000 Himachal Pradesh							
Attendance Sheet							
Package: MZ-P-1		Zone: Mandi		Circle: Sundamagar		District:	
S.No.	Name	Gender	Occupation	Designation	Mobile. No.	Village	Sign
1	Komli	F.	H.W.			Jalla	
2	Banti Devi	F.	-			Jalla	
3	Gudi Devi	F.	H.W.			Jalla	
4	Gunda Devi	F.	H.W.		9805450502	Jalla	
5	Beema Devi	F.	H.W.		9816378114	Jalla	
6	Gunda Devi	F.	H.W.		9816433861 78340	Jalla	
7	Nirmala Devi	F.	H.W.		8894008862	Jalla	
8	Madhu	F.	H.W.			Jalla	
9	Seema Devi	F.	H.W.		7607595483	Jalla	
10	Savitri	F.	H.W.			Jalla	
11	Banti	F.	H.W.			Jalla	
12	Som Dev	M.	IPM/Fitter		9816822791	Jalla	
13	Vijay Gupta	M.	IPM A.G.		9418455085	Jalla	
14	Ravindra Singh	M.	J-E 12 PM		9416024702	Am	
15	Manish Bhatnagar	M.	WJIPM		9415980672		
16	Karen Son	M.	Co-Cont		9792412099		
17	Shivam Sharma	M.	EG Consultant		9418306028		
18	SAKIB QADRI	M.	Environment Specialist Consultant EY		1		
19	Shah Ravi	M.	Architect		980254257	Bhaini	
20	Hem Raj	M.	H		7534010188	Jalla	
21	Rameshwarai	F.	mahto mandal Teacher		9736648356	Jalla	
22	Shawari dit Sharma	M.	Agriultur			Jalla	

Appendix 4: Land Records

(A) Land in Ownership of JSV

Grid MS1

Proposed SR Rati Pull

Before H.C. Verma, Land Acquisition Collector, HP:PWD(CZ) Mandi.

Award No:- १३ Dated:- 31-8-2013

Award U/S-11 of Land Acquisition Act,1894 regarding Acquisition of the land for the Public purpose namely for the Construction of Lift Water Supply Scheme Kehawal Water Store Tank in Mohal Jola/353, Tehsil Sadar, District Mandi(HP).

I. NOTIFICATION AND DECLARATION:-

The H.P.Govt. vide Notification No.IPH-B(H)8-32/2011-Mandi Dated Shimla-171002, 01/10/2011 Notified U/S-4 of the Land Acquisition Act,1894 that the land mentioned there in situated in Village-Jola/353, Tehsil Sadar, District Mandi (HP) was needed for public purpose namely for the construction of Lift Water Supply Scheme in the above village. The H.P. Govt. has further declared Under Section 6&7 of the Act, vide Notification:-IPH-B(H)8-32/2011- Mandi Shimla 171002, dated 30-04-2012 that the land as Notified is required for public purpose and directed the Land Acquisition Collector Under Section-7 of the Act, to take order for the acquisition of said land. The Notification U/S-4,6&7 of the Act were published in the H.P. Rajpatra & News papers for the information of the general public and the interested share holders as under:-

II.NOTIFICATION UNDER SECTION -4:

1. 'H.P. Rajpatra' on 13.10.2011.
2. 'Dainik Tribune' on 15.11.2011.
3. 'Dainik Bhasker' on 15.11.2011.
4. 'Local Publicity on 19.11.2011.

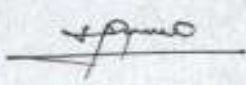
III.NOTIFICATION UNDER SECTION 6&7:-

1. 'H.P. Rajpatra' on 02.05.2012.
2. 'Ajeet Samachar' on 13.05.2012.
3. 'Divya Himachal' on 13.05.2012.
4. 'Local Publicity on 23.05.2012.

IV. MEASUREMENT OF THE LAND:-

The area of the land to be acquired as mentioned in the Notification Under section-6&7 has been marked out, measured and planned as provided in the Act. The total area to be acquired comes at 0-1-0 Bigha. The Revenue Agency has verified the correctness of the area that has been marked out, measured and planned. The detail of measurement of land acquired is as under:-

District	Tehsil	Village	Khasra No.	Area in Bigha	Classification of land
Mandi.	Sadar	Jola/353	58/1	0-1-0	Barani Dom.
			Kitta-1	0-1-0	



The person interested have no objection to the measurement of the land recorded in the revenue record.

V. NOTICE AND CLAIM:-

In pursuance of the Notification of the Govt. Under Section-6&7 of the Act, necessary notices as required Under Section-9 of the Act, were issued to the person interested to put their claims/objection before the Land Acquisition Collector on 07.05.2013 at Patwarkhana Padiun. The acquiring department was also issued Notice to this effect. The statement of land owners present were recorded. They did not made any objection regarding the demarcation of land on spot and demanded compensation as per market rate. Sh. Ranjeet Singh Sood, Assistant Engineer, I&PH. Sub-Division, Mandi who appeared on behalf of the acquiring department has stated that the possession of the land has already been taken over by the acquiring Department. The Notification U/S-4 has published in the H.P Rajpatra on 13.10.2011. As such the interest is allowed w.e.f.13.10.2011.

VI. MARKET VALUE OF THE LAND:-

The land under acquisition is situated in village -Jola/353, Tehsil Sadar, Distt Mandi (HP) and for this village Distt. Collector Mandi has approved market value per Bigha Barani Dom @Rs.1,76,333.50/- per Bigha for the land under acquisition vide his office letter No. DRA/MC/401/2013-35461 dated 03.08.2013 and award statement on the basis of approved rate by the Distt. Collector is prepared by the field revenue agency and placed on the award file.

VII. COMPULSORY ACQUISITION CHARGES U/S 23 (2):-

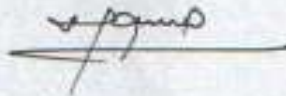
Compulsory acquisition charges @ 30%- of the market value of the land according to land acquisition Act. are to be paid to the person interested in addition to the market value of the land Under Section 23-(2) of the Act, which is worked out to Rs.2,645/- and the same is added in the award. In addition to the market value of the land as above and amount calculated @ 12% per amount w.e.f.13.10.2011 to 31.08.2013 Under Section 23(1-A) of the Act which is worked out Rs. 1,997/-/- is added in the award.

VIII. INTEREST U/S-34:-

At the time of Inquiry U/S-9 the representative of the acquiring department has stated that the possession of the land under acquisition has already been taken over by the acquiring department. As such the persons interested are entitled to get the interest @ 9% w.e.f. 13.10.2011 to 12.10.2012 which worked out to Rs. 794/- and there after 15% Per annum w.e.f.13.10.2012 to 31.08.2013 which worked out to Rs. 1,170/- U/S-34 of the Land Acquisition Act. and the same is added in the award.

IX. HOUSE/ STRUCTURE AND TREES:-

There is no house/ structure and trees in the acquired land.



X. TOTAL COMPENSATION: -

The amount of compensation finally determined and awarded for the acquired land under this award is as under :-

1.	Value of land	Rs.8817/-
2.	Compulsory Acquisition Charges U/S-23(2) @ 30% i.e.	Rs. 2645/-
3.	Additional market value @12% U/S-23(A-I) 13.10.2011 to 31.08.2013	Rs. 1997-
4.	Interest @ 9% w.e.f. 13.10.2011 to 12.10.2012.	Rs. 794/-
5.	Interest @ 15% w.e.f. 13.10.2012 to 31/08/2013.	Rs. 1170/-
	Total:-	Rs. 15,423/-

(Rupees fifteen thousand four hundred twenty three) only

X.MODE OF PAYMENT:-

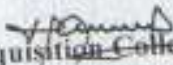
The entire amount of compensation payable to each person interested is reflected in the statement prepared under Para-55 of standing order No. 28 attached with the award file. The land acquired under this award shall vest with the IPH Deptt. free from all encumbrance.

XI.GENERAL DIRECTIONS:-

In case of any dispute raised by any person interested or any error /defect coming to the notice of the undersigned or even at the time of payment of compensation, the amount in respect of the Khata Khatouni will be withheld and case may be referred to the court of Ld. Distt. Judge for his decision as envisaged in section 30 of the Act or amount so withheld be released to the person concerned according to their mutual settlement or compromise.

Announced:-

Place:- Mandi
Date:- 31.8.13


Land Acquisition Collector,
HP:PWD(CZ) Mandi.

Proposed SR Jola

Dated:- 31.8.2013

Before H.C. Verma, Land Acquisition Collector, HP:PWD(CZ) Mandi.
Award No:- 94

Award U/S-11 of Land Acquisition Act.1894 regarding Acquisition of the land for the Public purpose namely for the Construction of Lift Water Supply Scheme Kehanwal Store Tank in Mohal Chambi/352, Tehsil Sadar, District Mandi(HP).

I. NOTIFICATION AND DECLARATION:-
The H.P.Govt. vide Notification No.IPH-B(H)8-31/2011-Mandi Dated Shimla-171002, 01/10/2011 Notified U/S-4 of the Land Acquisition Act,1894 that the land mentioned there in situated in Village-Chambi/352, Tehsil Sadar, District Mandi (HP) was needed for public purpose namely for the construction of Lift Water Scheme in the above village. The H.P. Govt. has further declared Under Section 6&7 of the Act, vide Notification:-IPH-B(H)8-31/2011- Mandi Shimla 171002, dated 30-04-2012 that the land as Notified is required for public purpose and directed the Land Acquisition Collector Under Section-7 of the Act, to take order for the acquisition of said land. The Notification U/S-4,6&7 of the Act were published in the H.P. Rajpatra & News papers for the information of the general public and the interested share holders as under:-

II.NOTIFICATION UNDER SECTION -4:

1. 'H.P. Rajpatra' on 13.10.2011.
2. 'Divya Himachal' on 15.11.2011.
3. 'Dainik Bhasker' on 15.11.2011.
4. 'Local Publicity on 19.11.2011.

III.NOTIFICATION UNDER SECTION 6&7:-

1. 'H.P. Rajpatra' on 02.05.2012.
2. 'DainikTribune' on 13.05.2012.
3. 'Punjab Kesri' on 14.05.2012.
4. 'Local Publicity on 23.05.2012.

IV. MEASUREMENT OF THE LAND:-
The area of the land to be acquired as mentioned in the Notification Under section-6&7 has been marked out, measured and planned as provided in the Act. The total area to be acquired comes at 0-5-0 Bigha. The Revenue Agency has verified the correctness of the area that has been marked out, measured and planned. The detail of measurement of land acquired is as under:-

District	Tehsil	Village	Khasra No.	Area in Bigha	Classification of land
Mandi.	Sadar	Chambi/352	205/1	0-5-0	Bagicha Phaldar.
			Kitta-1	0-5-0	Barani

[Signature]

The person interested have no objection to the measurement of the land recorded in the revenue record.

V. NOTICE AND CLAIM:-

In pursuance of the Notification of the Govt. Under Section-6&7 of the Act, necessary notices as required Under Section-9 of the Act, were issued to the person interested to put their claims/objection before the Land Acquisition Collector on 07.05.2013 at Patwarkhana Padiun. The acquiring department was also issued Notice to this effect. The statement of land owners present were recorded. They did not made any objection regarding the demarcation of land on spot and demanded compensation as per market rate. Sh. Ranjeet Singh Sood, Assistant Engineer, I&PH. Sub-Division, Mandi who appeared on behalf of the acquiring department has stated that the possession of the land has already been taken over by the acquiring Department. The Notification U/S-4 has published in the H.P Rajpatra on 13.10.2011. As such the interest is allowed w.e.f.13.10.2011.

VI. MARKET VALUE OF THE LAND:-

The land under acquisition is situated in village -Chambi/352, Tehsil Sadar, Distt Mandi (HP) and for this village Distt. Collector Mandi has approved market value per Bagicha Barani Phaldar @Rs.1,70,300/- per Bigha for the land under acquisition vide his office letter No. DRA/MC/401/2013-35462 dated 03.08.2013 and award statement on the basis of approved rate by the Distt. Collector is prepared by the field revenue agency and placed on the award file.

VII. COMPULSORY ACQUISITION CHARGES U/S 23 (2):-

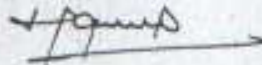
Compulsory acquisition charges @ 30%- of the market value of the land according to land acquisition Act. are to be paid to the person interested in addition to the market value of the land Under Section 23-(2) of the Act, which is worked out to Rs.12,773/- and the same is added in the award. In addition to the market value of the land as above and amount calculated @ 12% per amount w.e.f.13.10.2011 to 31.08.2013 Under Section 23(1-A) of the Act which is worked out Rs. 9,645/- is added in the award.

VIII. INTEREST U/S-34:-

At the time of Inquiry U/S-9 the representative of the acquiring department has stated that the possession of the land under acquisition has already been taken over by the acquiring department. As such the persons interested are entitled to get the interest @ 9% w.e.f. 13.10.2011 to 12.10.2012 which worked out to Rs. 3,832/- and there after 15% Per annum w.e.f.13.10.2012 to 31.08.2013 which worked out to Rs. 5,652- U/S-34 of the Land Acquisition Act, and the same is added in the award.

IX. HOUSE/ STRUCTURE AND TREES:-

There is no house/ structure and trees in the acquired land.



X. TOTAL COMPENSATION: -

The amount of compensation finally determined and awarded for the acquired land under this award is as under :-

1.	Value of land	Rs.42,577/-
2.	Compulsory Acquisition Charges U/S-23(2) @ 30% i.e.	Rs. 12,773/-
3.	Additional market value @12% U/S-23(A-1) 13.10.2011 to 31.08.2013	Rs. 9,645/-
4.	Interest @ 9% w.e.f. 13.10.2011 to 12.10.2012.	Rs. 3,832/-
5.	Interest @ 15% w.e.f. 13.10.2012 to 31/08/2013.	Rs. 5,652/-
	Total:-	Rs. 74,479/-

(Rupees seventy four thousand four hundred seventy nine) only

X.MODE OF PAYMENT:-

The entire amount of compensation payable to each person interested is reflected in the statement prepared under Para-55 of standing order No. 28 attached with the award file. The land acquired under this award shall vest with the IPH Deptt. free from all encumbrance.

XI.GENERAL DIRECTIONS:-

In case of any dispute raised by any person interested or any error/defect coming to the notice of the undersigned or even at the time of payment of compensation, the amount in respect of the Khata Khatouni will be withheld and case may be referred to the court of Ld. Distt. Judge for his decision as envisaged in section 30 of the Act or amount so withheld be released to the person concerned according to their mutual settlement or compromise.

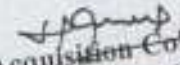
Announced:-

Place:-

Mandi

Date:-

31.8.2013


Land Acquisition Collector,
HP:PWD(CZ) Mandi.

Proposed SR Khatlag and SR Alathu

Before H.C. Verma, Land Acquisition Collector, HP:PWD(CZ) Mandi,

Award No:- 95 Dated:- 31.8.2013

Award U/S-11 of Land Acquisition Act.1894 regarding Acquisition of the land for the Public purpose namely for the Construction of Lift Water Supply Scheme Kehanwal Water Store Tank in Mohal Kathlag/350, Tehsil Sadar, District Mandi(HP).

I. NOTIFICATION AND DECLARATION:-

The H.P.Govt. vide Notification No.IPH-B(H)8-34/2011-Mandi Dated Shimla-171002, 01/10/2011 Notified U/S-4 of the Land Acquisition Act,1894 that the land mentioned there in situated in Village-Kathlag/350, Tehsil Sadar, District Mandi (HP) was needed for public purpose namely for the construction of Lift Water Supply Scheme in the above village. The H.P. Govt. has further declared Under Section 6&7 of the Act, vide Notification:-IPH-B(H)8-34/2011- Mandi Shimla 171002, dated 30-04-2012 that the land as Notified is required for public purpose and directed the Land Acquisition Collector Under Section-7 of the Act, to take order for the acquisition of said land. The Notification U/S-4,6&7 of the Act were published in the H.P. Rajpatra & News papers for the information of the general public and the interested share holders as under:-

II. NOTIFICATION UNDER SECTION -4:

1. 'H.P. Rajpatra' on 13.10.2011.
2. 'Ajeet Samachal' on 15.11.2011.
3. 'Dainik Phasker' on 15.11.2011.
4. 'Local Publicity on 19.11.2011.

III. NOTIFICATION UNDER SECTION 6&7:-

1. 'H.P. Rajpatra' on 02.05.2012.
2. 'Ajeet Samachar' on 13.05.2012.
3. 'Dainik Tribune' on 13.05.2012.
4. 'Local Publicity on 23.05.2012.

IV. MEASUREMENT OF THE LAND:-

The area of the land to be acquired as mentioned in the Notification Under section-6&7 has been marked out, measured and planned as provided in the Act. The total area to be acquired comes at 0-1-4 Bigha. The Revenue Agency has verified the correctness of the area that has been marked out, measured and planned. The detail of measurement of land acquired is as under:-

District	Tehsil	Village	Khasra No.	Area ^{3/4} Bgks.	Classification of land
Mandi.	Sadar	Kathlag/350	271/1	0-1-12	Gair Mumkin
			Salam	0-2-19	Kherchatar.
			325/1	0-2-9	Barani Abbal.

		1092/1	0-3-4	Kheratehar.
		Kitta-4	0-10-4	

The person interested have no objection to the measurement of the land recorded in the revenue record.

V. NOTICE AND CLAIM:-

In pursuance of the Notification of the Govt. Under Section-6&7 of the Act, necessary notices as required Under Section-9 of the Act, were issued to the person interested to put their claims/objection before the Land Acquisition Collector on 07.05.2013 at Patwarkhana Padiun. The acquiring department was also issued Notice to this effect. The statement of land owners present were recorded. They did not made any objection regarding the demarcation of land on spot and demanded compensation as per market rate. Sh. Ranjeet Singh Sood, Assistant Engineer, I&PH. Sub-Division, Mandi who appeared on behalf of the acquiring department has stated that the possession of the land has already been taken over by the acquiring Department. The Notification U/S-4 has published in the H.P Rajpatra on 13.10.2011. As such the interest is allowed w.e.f.13.10.2011.

VI. MARKET VALUE OF THE LAND:-

The land under acquisition is situated in village Kathlag/350, Tehsil Sadar, Distt Mandi (HP) and for this village Distt. Collector Mandi has approved market value per Bigha Kharetar Gairmumkin @Rs.37,176/- & Barani Abbal Rs.1,88,978/- per Bigha for the land under acquisition vide his office letter No. DRA/MC/401/2013-35460 dated 03.08.2013 and award statement on the basis of approved rate by the Distt. Collector is prepared by the field revenue agency and placed on the award file.

VII. COMPULSORY ACQUISITION CHARGES U/S 23 (2):-

Compulsory acquisition charges @ 30%- of the market value of the land according to land acquisition Act. are to be paid to the person interested in addition to the market value of the land Under Section 23-(2) of the Act, which is worked out to Rs.11,266/- and the same is added in the award. In addition to the market value of the land as above and amount calculated @ 12% per amount w.e.f.13.10.2011 to 31.08.2013 Under Section 23(1-A) of the Act which is worked out Rs. 8,507/- is added in the award.

VIII. INTEREST U/S-34:-

At the time of Inquiry U/S-9 the representative of the acquiring department has stated that the possession of the land under acquisition has already been taken over by the acquiring department. As such the person interested are entitled to get the interest @ 9% w.e.f. 13.10.2011 to 12.10.2012 which worked out to Rs. 3,380/- and there after 15% Per annum w.e.f.13.10.2012 to 31.08.2013 which worked out to Rs. 4,986/- U/S-34 of Land Acquisition Act. and the same is added in the award.

IX. HOUSE/ STRUCTURE AND TREES:-

There is no house/ structure and trees in the acquired land.

[Signature]

X. TOTAL COMPENSATION: -
The amount of compensation finally determined and awarded for the acquired land under this award is as under :-

1.	Value of land	Rs.37,556/-
2.	Compulsory Acquisition Charges U/S-23(2) @ 30% i.e.	Rs. 11,266/-
3.	Additional market value @12% U/S-23(A-I) 13.10.2011 to 31.08.2013	Rs. 8,507/-
4.	Interest @ 9% w.e.f. 13.10.2011 to 12.10.2012.	Rs. 3,380/-
5.	Interest @ 15% w.e.f. 13.10.2012 to 31/08/2013.	Rs. 4,986/-
Total:-		Rs. 65,695/-

(Rupees sixty five thousand six hundred ninety five) only

X. MODE OF PAYMENT:-

The entire amount of compensation payable to each person interested is reflected in the statement prepared under Para-55 of standing order No. 28 attached with the award file. The land acquired under this award shall vest with the IPH Deptt. free from all encumbrance.

XI. GENERAL DIRECTIONS:-


In case of any dispute raised by any person interested or any error/defect coming to the notice of the undersigned or even at the time of payment of compensation, the amount in respect of the Khata Khatouni will be withheld and case may be referred to the court of L.d. Distt. Judge for his decision as envisaged in section 30 of the Act or amount so withheld be released to the person concerned according to their mutual settlement or compromise.

Announced:-

Place:- Mandi
Date:- 31.8.2013

[Signature]
Land Acquisition Collector,
HP:PWD(CZ) Mandi.

FCA Award Letter

<p>भारत सरकार पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय क्षेत्रीय कार्यालय (उत्तर-मध्य क्षेत्र) 25 सुभाष रोड, देहरादून-248001 दूरभाष: 0135-2650809 फैक्स-0135-2653010 ईमेल - moef.ddn@gov.in</p>		<p>GOVERNMENT OF INDIA MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE REGIONAL OFFICE (NORTH CENTRAL ZONE) 25 SUBHASH ROAD, DEHRADUN-248001 PHONE-0135-2650809 FAX-0135-2653010 Email- moef.ddn@gov.in</p>
<p>पत्र सं. 8बी/एच.पी./08/97/2017/एफ.सी. 1468</p>		<p>दिनांक: 30/11/2017</p>
<p>सेवा में, अतिरिक्त मुख्य सचिव (वन) हिमाचल प्रदेश सरकार, आसमंडैल बिल्डिंग, शिमला।</p>		
<p>विषय: Diversion of 0.4208 ha of forest land in favour of I & PH for the construction of Lift Water Supply scheme Marthu, Janed & Natned (Randhara) in Tehsil Sadar, within the jurisdiction of Mandi Forest Division, Distt. Mandi, Himachal Pradesh.</p>		
<p>सन्दर्भ: नोडल अधिकारी एवं मुख्य वन संरक्षक (एफ.सी.ए.), हिमाचल प्रदेश का पत्र संख्या एक.टी. 48-3458/2018 (एफ.सी.ए) दिनांक 18.08.2017</p>		
<p>महोदय,</p> <p>उपरोक्त विषय पर Online Proposal No. FP/HP/Other/21609/2016 तथा नोडल अधिकारी एचम मुख्य वन संरक्षक (एफ.सी.ए.) हिमाचल प्रदेश के संदर्भित पत्र का अवलोकन करने का कष्ट करें जिसके द्वारा विषयवस्तु प्रस्ताव पर केन्द्र सरकार से वन (संरक्षण) अधिनियम, 1980 की धारा-2 के तहत स्वीकृति मांगी थी।</p> <p>प्रस्ताव प्रकरण में इस कार्यालय द्वारा सम्बन्धित पर अतिरिक्त सूचनाये चाही गयी थी जिसकी अन्तिम अनुपालना नोडल अधिकारी एवं मुख्य वन संरक्षक (एफ.सी.ए.) के पत्र दिनांक 14.11.2017 द्वारा प्रेषित कर दी गई है। प्रस्ताव पर ध्यानपूर्वक विचार करने के उपरान्त केन्द्र सरकार Diversion of 0.4208 ha of forest land in favour of I & PH for the construction of Lift Water Supply scheme Marthu, Janed & Natned (Randhara) in Tehsil Sadar, within the jurisdiction of Mandi Forest Division, Distt. Mandi, Himachal Pradesh हेतु सौदागत स्वीकृति निम्नलिखित शर्तों पर प्रदान करती है-</p>		
<ol style="list-style-type: none"> 1. वन विभाग द्वारा guideline para 3.2 (viii) (b) के अंतर्गत प्रस्ताव के अनुसार 240 क्यूमी का वृक्षारोपण एवं उसके 07-10 वर्षों तक रखरखाव हेतु (वर्तमान दरों को समाहित करते हुए अध्यासंशोधित) प्रयोक्ता अभिकरण से आवश्यक धनराशि जमा कराई जायेगी। 2. प्रयोक्ता अभिकरण द्वारा भारत सरकार के पत्र संख्या 5-3/2007-एफ.सी. दिनांक 05.02.2009 के तहत दिये गये आदेशानुसार शुद्ध वर्तमान मूल्य (एन.पी.वी.) की निर्धारित राशि जमा की जायेगी। 3. शुद्ध वर्तमान मूल्य की दर में अगर बढ़ोतरी होती है, तो बढ़ी हुई दर के अनुसार अतिरिक्त धनराशि प्रयोक्ता अभिकरण द्वारा जमा की जायेगी। इस आशय की प्रयोक्ता अभिकरण द्वारा वचन बद्धता प्रस्तुत की जाए। 4. प्रयोक्ता अभिकरण द्वारा भारत सरकार पत्र संख्या 5-3/2007-एफ.सी. दिनांक 05.02.2009 के तहत दिये गये आदेशानुसार शुद्ध वर्तमान मूल्य (एन.पी.वी.) तथा बुरसरी सभी निधियों प्रतिपूर्ति वृक्षारोपण निधि प्रबंधन तथा योजना प्राधिकरण (CAMP) के तदर्थ निकाय खाते में Online Portal के माध्यम द्वारा जो चालान Generate होता है उसी के माध्यम से किया जाना आवश्यक है, जिसकी सूचना इस कार्यालय को प्रेषित की जाए। 5. निर्माण कार्यों के पूर्ण होने के पश्चात् जहां-जहां समग हो, परियोजना क्षेत्र के रिक्त स्थानों पर प्रयोक्ता अभिकरण द्वारा अपने व्यय पर वन विभाग की देख-रेख में उपयुक्त प्रजातियों के पौधों का plantation किया जायेगा। इस आशय की वचन बद्धता प्रेषित करनी होगी। <p>उपरोक्त सभी शर्तों के परिपूर्ण एवं बिन्दुवार सुस्पष्ट परिपालन आख्या प्राप्त होने पर ही वन (संरक्षण) अधिनियम, 1980 के तहत विधिवत स्वीकृति जारी की जायेगी। कृपया अपूर्ण परिपालना आख्या इस कार्यालय को प्रेषित न की जाये। राज्य सरकार द्वारा विधिवत स्वीकृति तथा प्रयोक्ता अभिकरण को वन भूमि हस्तान्तरण की कार्यवाही तब तक नहीं की जायेगी जब तक वन भूमि हस्तान्तरण की विधिवत स्वीकृति भारत सरकार द्वारा जारी नहीं की जाती।</p>		
		<p><i>(Signature)</i> 2017</p>

राज्य सरकार द्वारा वैधानिक स्वीकृति की अनुपालन आख्या प्रेषित करने के पश्चात् विधिवत् स्वीकृति अन्य आवश्यक शर्तों सहित निम्नलिखित शर्तों के साथ प्रदान की जावेगी-

1. वन भूमि की विधिक परिस्थिति नहीं बदली जाएगी।
 2. एन.पी.वी. की दूरी में अगर बढ़ोतरी होती है तो प्रयोक्ता अभिकरण बड़ी दूरी पर एन.पी.वी. देने के लिए बाध्य होगा।
 3. प्रयोक्ता अभिकरण द्वारा प्रस्तावित वन क्षेत्र के आस-पास मजदूरों/स्टॉफ के लिये किसी भी प्रकार का लेबर कैंम्प नहीं लगाया जावेगा।
 4. प्रयोक्ता अभिकरण को द्वारा निर्माण कार्य के दौरान स्थल पर कार्यरत मजदूरों एवं स्टॉफ के लिये रसोई गैस/कैमोरिन तेल की आपूर्ति की जायेगी, जिससे निकलपती धुं को क्षति न पहुँचे।
 5. परियोजना के निर्माण व रख-रखाव के दौरान आस-पास के क्षेत्र की वनस्पतियों एवं जीव-जन्तुओं को किसी प्रकार की क्षति नहीं पहुँचायी जायेगी।
 6. निर्माण कार्यों के पूर्ण होने के पश्चात् जहाँ-जहाँ संभव हो, परियोजना क्षेत्र के रिक्त स्थानों पर प्रयोक्ता अभिकरण द्वारा अपने व्यय पर वन विभाग की देख-रेख में उपयुक्त प्रजाति के पौधों का plantation किया जावेगा।
 7. वन भूमि का प्रयोग प्रस्ताव में दिये गये उद्देश्य के अलावा अन्य किसी उद्देश्य के लिए नहीं किया जावेगा।
 8. भारत सरकार की पूर्व अनुमति के बिना layout plan नहीं बदला जाएगा।
 9. कम से कम वृक्षों का कटान/हटान किया जाएगा, जिनकी संख्या प्रस्ताव के अनुसार 24 trees से अधिक न हो।
 10. प्रयोक्ता अभिकरण वन विभाग की देख-रेख में प्रस्तावित भूमि का RCC Pillars लगाकर सीमांकन करेगा जिन Forward and Back bearing भी अंकित किया जाएगा।
 11. प्रयोक्ता अभिकरण द्वारा इस प्रोजेक्ट के लिए स्वाम अधिकारी/प्राधिकरण से आवश्यक पर्यावरण मजूरी, यदि लागू है तो, लेना आवश्यक होगा।
 12. परियोजना निर्माण से उत्पन्नित मलबे का निस्तारण प्रयोक्ता अभिकरण द्वारा प्रस्तुत मलबा निस्तारण योजना के अनुसार प्राणीय वनाधिकारी की देख-रेख में किया जाएगा एवं निर्दिष्ट स्थलों के अलावा अन्यत्र मलबा नहीं फेंका जाएगा।
 13. यदि कोई अन्य सम्बन्धित अधिनियम/अनुच्छेद/नियम/न्यायालय आदेश/अनुदेश आदि इस प्रस्ताव पर लागू होते हैं तो उनके अधीन जरूरी अनुमति लेना राज्य सरकार/प्रयोक्ता एजेंसी की जिम्मेवारी होगी।
 14. ऐसी अन्य कोई भी शर्त जो कि भारत सरकार भविष्य में पर्यावरण, वन एवं वन्य जीवों के संरक्षण हेतु आवश्यक समझे।
- यदि विधिवत् स्वीकृति में दी गई शर्तों का संतोषजनक अनुपालन नहीं किया जाता है तो स्वीकृति को तत्काल माव से निरस्त किया जा सकता है।

भवदीया,

(कमल प्रीत)
वन सहायक

प्रतिलिपि सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:

1. उपर वन महानिदेशक (एफ.सी.डी.) पर्यावरण, वन एवं जलसम्प. परिचालन, संजालय, इन्डिया-सहायक भवन, जोरखुरा रोड, अलीगंज, नई दिल्ली।
2. नोडल अधिकारी एवं मुख्य वन सहायक (एफ.सी.ए.) हिमाचल प्रदेश सरकार, वन विभाग, टालीक, शिमला।
3. अर्पदेश पत्रावली।

कमल प्रीत
Atul
(कमल प्रीत)
वन सहायक

संख्या 28/1418
दिनांक 01/01/18

Transcript

Letter No. 8B/HP/D9/97/2017/FC/1468

To,

Additional Chief Secretary,

Himachal Pradesh Government,

Asramdal building, Shimla

Sub- Diversion of 04208 ha of forest land in favour of I & PH for the construction of Lift Water Supply Schemes Marthu, Janed&Natned (Randhara) in Tehsil Sadar, within the jurisdiction of mandi forest division, Disst, Mandi, Himachal Pradesh.

Reference: Nodal Officer and Forest conservation (FCA) Himachal Pradesh letter No. 48-3456/2016 (FCA) Dated 18.08.2017

Sir,

On above subject online proposal No. FP/HP/Others/21609/2016 and Nodal Officer and FCA, Himachal Pradesh, Cast to review the letter referred to by which the Central Government had sought approval of the Forest Conservation Act 1980 Section-2.

In the context, the office of the case sought additional facilities at the same time, the final compliance of which was given by the Nodal Officer, Avem FCA, letter dated 14. 11. 2017. After careful consideration of the proposal, the Central Government **Diversion of 04208 ha of forest land in favour of I & PH for the construction of Lift Water Supply Schemes Marthu, Janed&Natned (Randhara) in Tehsil Sadar, within the jurisdiction of mandi forest division, Disst, Mandi, Himachal Pradesh. In principle approval for the same is granted on the following conditions:**

1. As per the proposal under Guideline para 3.2 (viii) (b) by the Department of forest, 240 trees have been planted and with them for 10 years (Including the present rate) Necessary funds will be deposited from the user agency.
2. The prescribed amount of net current value (NPV) will be deposited by the user agency as per the order given under the Letter No. 5—3/ 2007 fc dated 05.02.2009
3. If the net current price rate is increased, additional amount will be deposited by the user agency as per the increased rate. Commitment to this effect may be submitted by the user agency
4. Net current price and all other policies reimbursement as per the order given by the user agency under Government of India Letter No. 5-3/2007 FC Dated 05.02.2009. and The fact of management and planning authority (CAMPA) must be done through the invoice generated through the online portal in the body account. Whose information should presented to this office.
5. After prior construction work, wherever possible, the user agency has taken up its forest department at the vacant locations in the project area for plantation. A commitment to this effect has to be sent

Under the Forest Act, 1980 only after receiving the full and clear compliance title of all the above conditions, Due sanction will be issued. Please don't send incomplete care to this office. Due clearance

by the State Government and transfer of forest land to the user agency will not be processed as long as Financial sanction for transfer of forest land is not issued by the Government of India.

After the State Government sends the title of compliance of in-principle approval, Due sanction shall be granted along with the following conditions including other necessary conditions:

1. The legal condition of forest land will not be changed
2. If NPV rates go up, the user agency will be forced to pay NPV at increased rates
3. No labor camp will be set up for laborer's or staff around the forest area proposed by the user agency
4. The user agency will supply lpg tax gold oil to the laborer's and staff working at the site during the construction work which doesn't affect the nearby forest.
5. No damage shall be caused to the surrounding areas and flora and fauna during the construction and maintenance of the project.
6. After completion of construction works, where possible on the vacant locations , the forest department at its expense should do the plantation of above mentioned types.
7. Forest land will not be used for any purpose other than the objective given in the proposal
8. Layout plan will not be changed without prior permission of Government of India
9. Least trees will be cut down which do not exceed 24 trees as per the proposal
10. The User Tribunal shall demarcate each frequency role under the supervision of forest department by installing RCC pillars in which forward and backward bearing shall be listed down.
11. The user agency will be required to obtain necessary environmental clearance from the competent authority or authority for this project if applicable
12. Disposal of emitted debris of project construction As per the debris disposal plan submitted by the user agency, the experimental forest officer is supervised and Debris other than specified locations will not be thrown.
13. If any other relevant Act, Article Rules, Court Order Instructions etc. If applicable to this proposal, the State Government should seek necessary permission under them.
14. Any other conditions that the Government of India may consider necessary for the conservation of future environmental forests and wildlife.

If the conditions given in financial sanction are not complied with satisfactorily, the sanction can be cancelled with immediate effect.

Reagrds,
Kamal Preet
Forest conservator

Copy information and send for necessary action:


1. Additional Director General of Forests (FC), Environment, Forest and JalvayuPrivartan Ministry, Indira paryavaran bhavan, Jorbagh road, New Delhi.
2. Nodal officer and chief conservator of forests (FCA) HP government, Forest department, Taland, Shimla.
3. order correspondence


CLARIFICATION ON FCA APPROVAL CERTIFICATE

This is with reference to the letter 8B/HP/09/97/2017/ FC/1468, dated 30/11/2017, stating that 0.4208 hectare of forest land has been diverted in favour of IPH department for construction of Lift Water Supply Scheme Marthu, Janed & Natned (Randhara) in Tehsil Sadar, within the jurisdiction of Mandi Forest Division, Distt. Mandi, Himachal Pradesh.

However, due to some unforeseen circumstances, the schemes weren't approved, and components were not constructed. Therefore, the said land as per FCA approval was not used for construction of structures and laying of pipes.

It is notified that IPH department (JSV) will be using the same FCA approval for construction of water supply scheme Chambi, Jola, Jal and Padhiun under Grid MS-1. The locations of proposed components are the same as the ones previously shared and approved in 2017 by the Ministry of Environment, Forest, and climate change.


Assistant Engineer,
Jal Shakti Sub-Division,
Saigaloo Mandi.

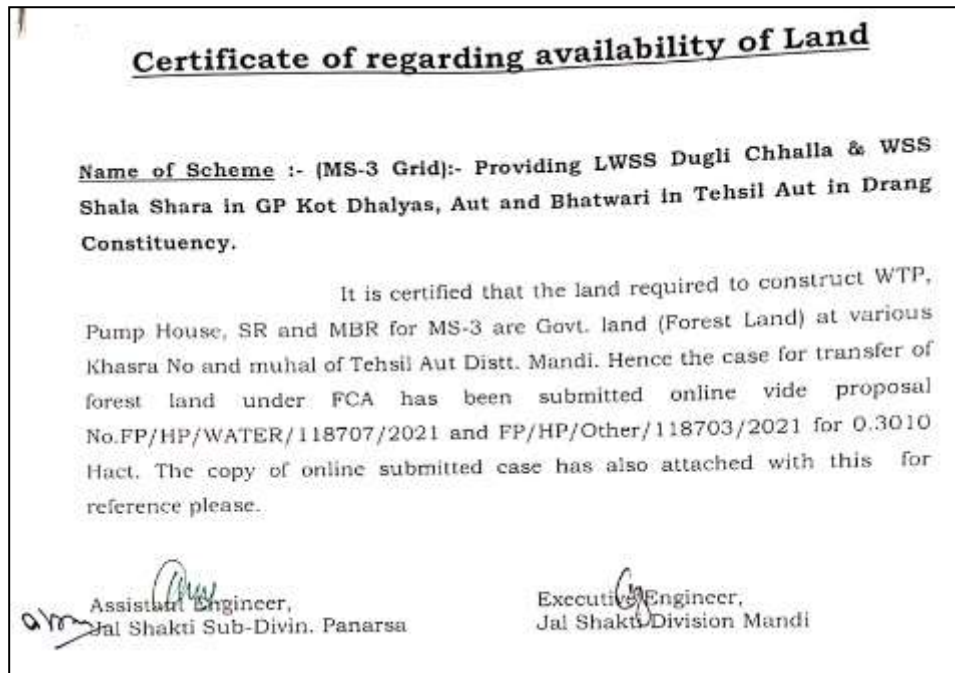

Executive Engineer
Jal Shakti Division,
Mandi.

(B) Land from Forest Department

Grids MS2

In Process

Grid MS3



Grid MS5

S.No	Proposal No.	Proposal Name	Category	User Agency Name	Area Applied (Ha.)	Proposed physically received on	Proposal Status	Proposal View Report on Allocation of Fresh forest land (Form A)
1	FP/HP/WAT/21/118707/2021	Providing WSS to Residents of old WSS Bafli Mahadev and WSS Kori Kargal Purva in Tehsil MS3	Drinking Water	CH-121 ENGINEERING, MCD HPPH	0.3010	01 Dec 2021	Draft	
2	FP/HP/WAT/21/05106/2020	Renovation and Reestablishment of Rural Water Supply Scheme Conferred under Para 01.01.2023 in Gadia Hagar Constituency.	Drinking Water	D-121 ENGINEERING, MCD HPPH	0.3010	19 Nov 2020	Draft	
3	FP/HP/WAT/21/05262/2020	REJUVENATION OF WSS SUNDERNAGAR IN TEHSIL SUNDERNAGAR, DISTRICT MANDI, HP	Drinking Water	D-121 ENGINEERING, MCD HPPH	0.3010	10 Nov 2020	Draft	

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Grids MS6 and MS 15

Certificate of regarding availability of land




Name of scheme:-(MS-6 Grid):- WSS Bahi Sarahi, WSS Sans, WSS Dhar Kandlu, WSS Bajoo Bhabi, WSS Pangna Nagroun, WSS Mashog and Kotlu (MS-15Grid):- WSS Baneshiti Jyog, WSS Kansar Darwar, WSS Kutachi, WSS Churasani Mashogal, WSS Khumba Ghowata Kotlu in Constituency Karsog.

It is certified that the land required to construct WTP, Pump house, MS Grid-6 & MS Grid-15 are Govt. land (forest land) at various Khasra No. and Muhal of Tehsil Karsog Distt. Mandi. Hence the case for transfer of Forest land under FCA has been submitted online vide proposal No. FP/HP/WATER/114078/2020 for 0.35 Hect. and FP/HP/WATER/114067/2020 for 0.30 Hect.


Hect. The copy of online-submitted case has also ^{been} attached with this for reference please.



Assistant Engineer
JS Sub. Division Churag .


Executive Engineer
JalShakti Division Karsog.

View Report of Submitted Proposals								
Help Click on  this icon for Viewing Report on Allocation of Fresh forest land(Form-A).								
Enter value for Search : <input type="text"/>								
Search								
Sno.	Proposal No.	Proposal Name	Category	User Agency Name	Area Applied (ha.)	Proposal physically received on	Proposal Status	View Report on Allocation of Fresh forest land(Form-A)
1	FP/HP/WATER/114078/2020	WSS Bahi Sarahi, Sans , Dharkandla, Bajoo Bhabl, Pangna Nagroun, Mashog Kotlu	Drinking Water	EXECUTIVE ENGINEER JSV	0.35	16 Dec 2020	Draft	
2	FP/HP/WATER/114067/2020	WSS Baneshi Jyog , Kansar Darwar, Kutachi , Churasani Mashogal and Khumba Ghowata	Drinking Water	EXECUTIVE ENGINEER JSV	0.3	16 Dec 2020	Draft	

Grid MS8 and MS9


PARIVESH
परिवेश




 Ministry of Environment, Forest and Climate Change
 Government of India

My Account ▾ My Proposals Environment Clearance ▾ Only CRZ Clearance ▾ My Proposals Forest Clearance ▾
☰

My Proposals Wildlife Clearance ▾ Help ▾



View Report of Submitted Proposals

Help

Click on  this icon for Viewing Report on Allocation of Fresh forest land(Form-A)


Enter value for Search :

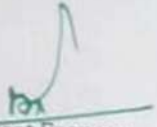
Search


Sno.	Proposal No.	Proposal Name	Category	User Agency Name	Area Applied (ha.)	Proposal physically received on	Proposal Status	View Report on Allocation of Fresh forest land(Form-A)
1	FP/HP/WATER/118614/2021	Detail Project Report of Renovation and Remodeling of various LWSS/WSS in Nachan constituency (under ABB MS-8)	Drinking Water	IRRIGATION AND PUBLIC HEALTH GOVT OF HP	0.45	05 Jan 2021	Draft	
2	FP/HP/WATER/118612/2021	Detail Project Report of Renovation and Remodeling of various LWSS/WSS in Nachan constituency (under ABB MS-8)	Drinking Water	IRRIGATION AND PUBLIC HEALTH GOVT OF HP	0.3	05 Jan 2021	Draft	

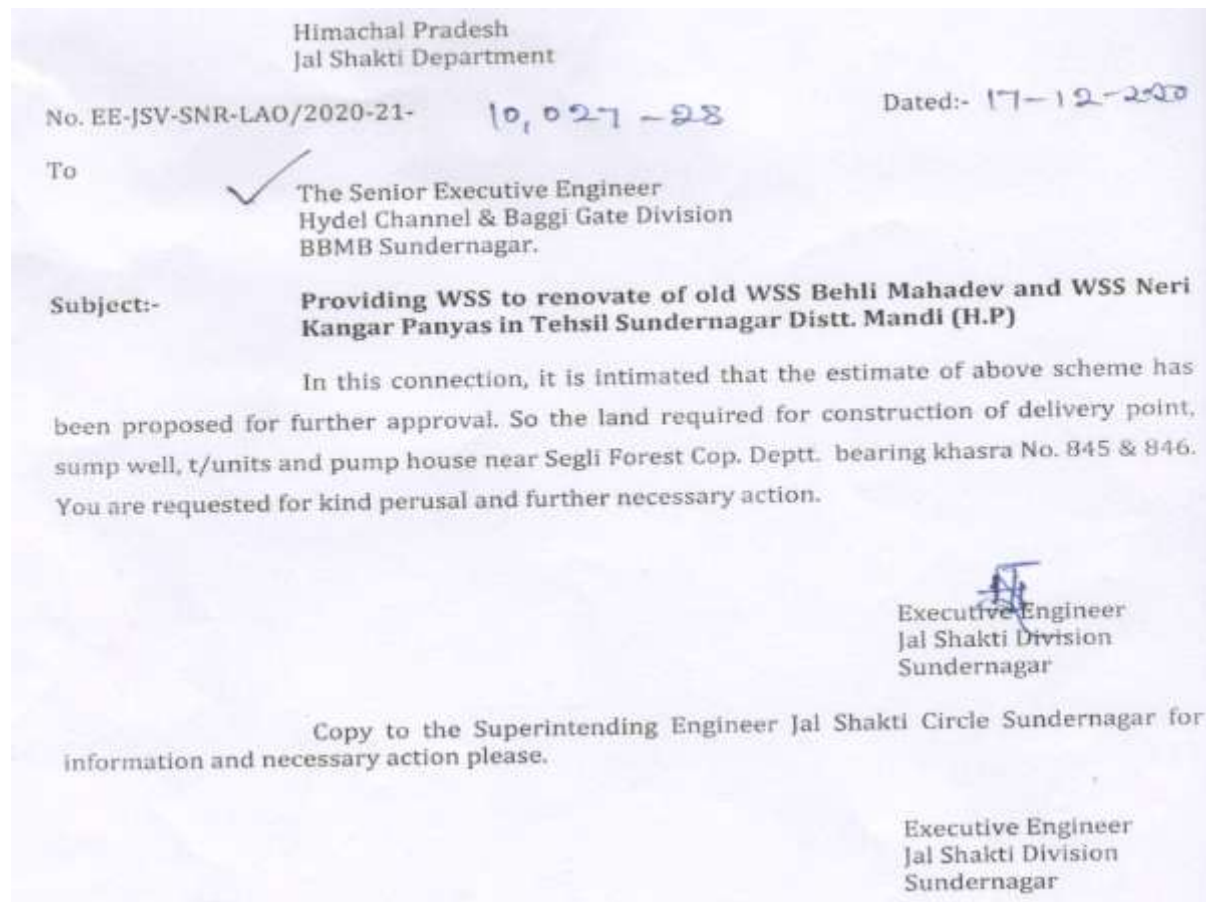
Certificate regarding availability of land

Name of Work:- Detail Project report of renovation and remodeling of various LWSS/WSS Nachan Constituency (under ABD Ms-8)

It is certified that land required to construct WTP,SR, MBR and Pump Houses for MS-8 is a Govt. Land (Forest Land) at various Khasra No. and Mohal of Tehsil Chachiot Distt. Mandi. Hence the case for transfer of forest land other than forest use under FCA has been submitted online vise proposal No.FP/HP/WATER/118614/2021 for 0.45 hect. The copy of online submitted case also attached with this for reference please.


 Assistant Engineer
 Jal Shakti Sub-Division
 Gohar.


 Executive Engineer
 Jal Shakti Division Baggi.

**(C) Land for Bhakra Beas Management Board (BBMB)****Grid MS5**

(D) Consents for Panchayats for Implementation Works

S. No.	Grid	Name of Scheme	Name of Gram Panchayat	Availability of Land Records/No Objection Certificate	Involuntary Resettlement Impact
1	MS-1	LWSS Chambi Jola JahalPadhiun	Talyahar and Padhiun	Yes	Nil
		LWSS Kathlag	Padhiun	Yes	Nil
		LWSS Sai Alathu	Sain	Yes	Nil
		WSS Sain	Sain	Yes	Nil
2	MS-2	LWSS Randhara	Randhara	Yes	Nil
		LWSS Srain Patron	Janad	Yes	Nil
3	MS-3	LWSS DuggliChhalla	KotDhalyas and Aut	Yes	Nil
		WSS Shala Sara	Bhatwari	Yes	Nil
4	MS-5	WSS Behli Mahadev	Mahadev, Upper Behli, Chowk, Palohta and Chambi	Yes	Nil
		WSS NeriKangerPanyash	Doldhar and Chambi	Yes	Nil
5	MS-6	WSS BehiSerhi	Bahi Sarahi	Yes	Nil
		WSS MashogKotlu	Mashogal	Yes	Nil
		WSS PagnaNagrown	Pangna	Yes	Nil
		WSS Dhar Khandlu	KandhiSapnot	Yes	Nil
		WSS BajhoBhabi	Bakhroth	Yes	Nil
		WSS Sansa	Sandal	Yes	Nil
6	MS-8	WSS Bhurla	Lot	Yes	Nil
		WSS Ger Kunsot	Tunna	Yes	Nil
		WSS Bag Karnala	Tunna	Yes	Nil
		WSS BhagarTrohi	Dhisti	Yes	Nil
		WSS ShallaBhushala	Dhisti and Shalla	Yes	Nil

S. No.	Grid	Name of Scheme	Name of Gram Panchayat	Availability of Land Records/No Objection Certificate	Involuntary Resettlement Impact
		WSS Sandoa	Shalla	Yes	Nil
7	MS-9	WSS Shangri Samnous	KandhiKamroonag	Yes	Nil
		WSS Jail Bhalothi	Dhisti	Yes	Nil
		WSS Tuna Dari	Tunna	Yes	Nil
		WSS KhananooSalyandi	Shalla	Yes	Nil
		WSS Barjohru	Naun	Yes	Nil
		WSS BalhriKaudurakutala	Balhri	Yes	Nil
8	MS-15	WSS KansarDharwar	Jhungi	Yes	Nil
		WSS BanestiJayog		Yes	Nil
		WSS Churasani	Mashogal	Yes	Nil
		WSS Kutachi		Yes	Nil
		WSS KhumbaGowata		Yes	Nil

GRID- MS 1, LWSS Chambi Jola JahalPadhiun

Gram Panchayat: Talyahar

Consent from Gram Panchayat

We the residents of Talyahar Gram Panchayat, District Mandi Himachal Pradesh, have no objection for laying of water Supply pipe lines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodeling of Rural water supply schemes commissioned prior 01.01.2000.



हस्ताक्षर.....
दिनांक.....

Executive Engineer
Jal Shakti Division Mandi
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MS 1, LWSS Chambi Jola JahalPadhiun, LWSS Kathalg

Gram Panchayat: Padhiun

Consent from Gram Panchayat

We the residents of Padhiun Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.


 प्रधान [Signature]
 ग्राम पंचायत पद्विह
 वि.ख. चम्ब, मण्ड (हि.प्र.)
 Gram Pradhan

_____ Panchayat

_____ District
 (Sign and stamp)


 Executive Engineer,
 Jal Shakti Vihag,
 Mandi


_____ Division
 Jal Shakti Vihag
 (Sign and Stamp)

GRID- MS 1, LWSS Sai Alathu and WSS Sain

Gram Panchayat: Sain


Consent from Gram Panchayat

We the residents of Sain Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

 प्रधान
ग्राम पंचायत सैन
वि.स. मंडी, मण्डी (हि.प्र.)
Gram Pradhan

_____ Panchayat

_____ District
(Sign and stamp)


Executive Engineer
Jal Shakti Division M

_____ Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MS 2, WSS Randhara

Gram Panchayat: Randhara

Consent from Gram Panchayat

We the residents of Randhara Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Q1
 Gram Pradhan
 उप-प्रधान LEKH RAM
 ग्राम पंचायत रन्धाड़ा Panchayat
 वि. ख. सदर जिला मण्डी (हि.प्र.) JANTA
 District
 (Sign and stamp)

Q2
 Ex-Executive Engineer
 Jal Shakti Division Mandi

Division
 Jal Shakti Vohag
 (Sign and Stamp)

GRID- MS 2, LWSS Srain Patron

Gram Panchayat: Janad

Consent from Gram Panchayat

We the residents of Janad Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Gram Pradhan



Pradhan Subi Ram

Panchayat

ग्राम पंचायत जनैड
सि.क. मंडी (हि.प्र.)

Subi Ram

District

(Sign and stamp)

Executive Engineer
Executive Engineer
Jal Shakti Division Mandi

Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MS 3, WSS Shala Sara

Gram Panchayat: Bhatwari

Consent from Gram Panchayat

We the residents of Bhatwari Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Gram Pradhan _____ Panchayat
_____ District
(Sign and stamp)

हस्ताक्षर पुन देवी
दिनांक _____

[Signature]
Executive Engineer
Executive Engineer
Jal Shakti Division Mandi
Division
Jal Shakti Vibhag
(Sign and Stamp)

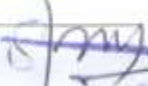
GRID- MS 3, WSS DuggliChhalla

Gram Panchayat: Aut

Consent from Gram Panchayat

We the residents of Aut Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Gram Pradhan  Panchayat


(Sign and stamp)  District
11/12/2020

 Executive Engineer
Executive Engineer
Jal Shakti Division Mandi
Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MS 3, WSS DuggliChhalla**Gram Panchayat: KotDhalyas**


Consent from Gram Panchayat

We the residents of Kot Dhalyas Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.



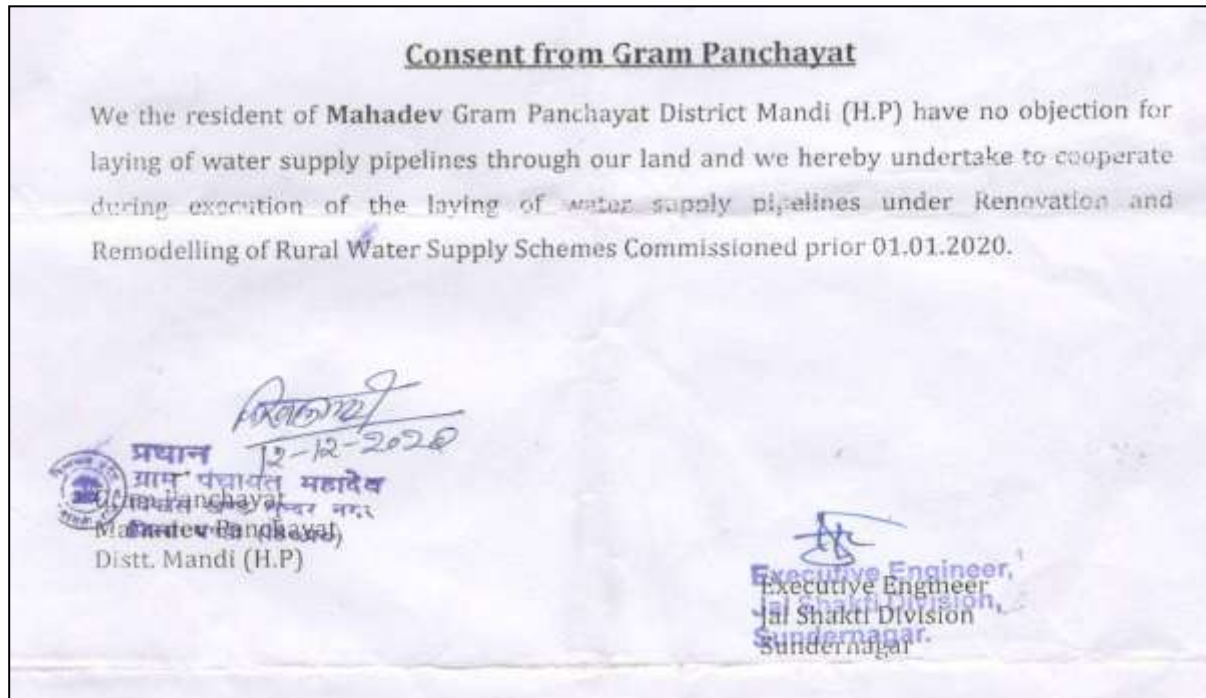
 _____ Panchayat

हस्ताक्षर KW District _____
 दिनांक _____ (Sign and stamp)


 _____ Division
 Executive Engineer
 Jal Shakti Division Mandi
 Jal Shakti Vibhag
 (Sign and Stamp)

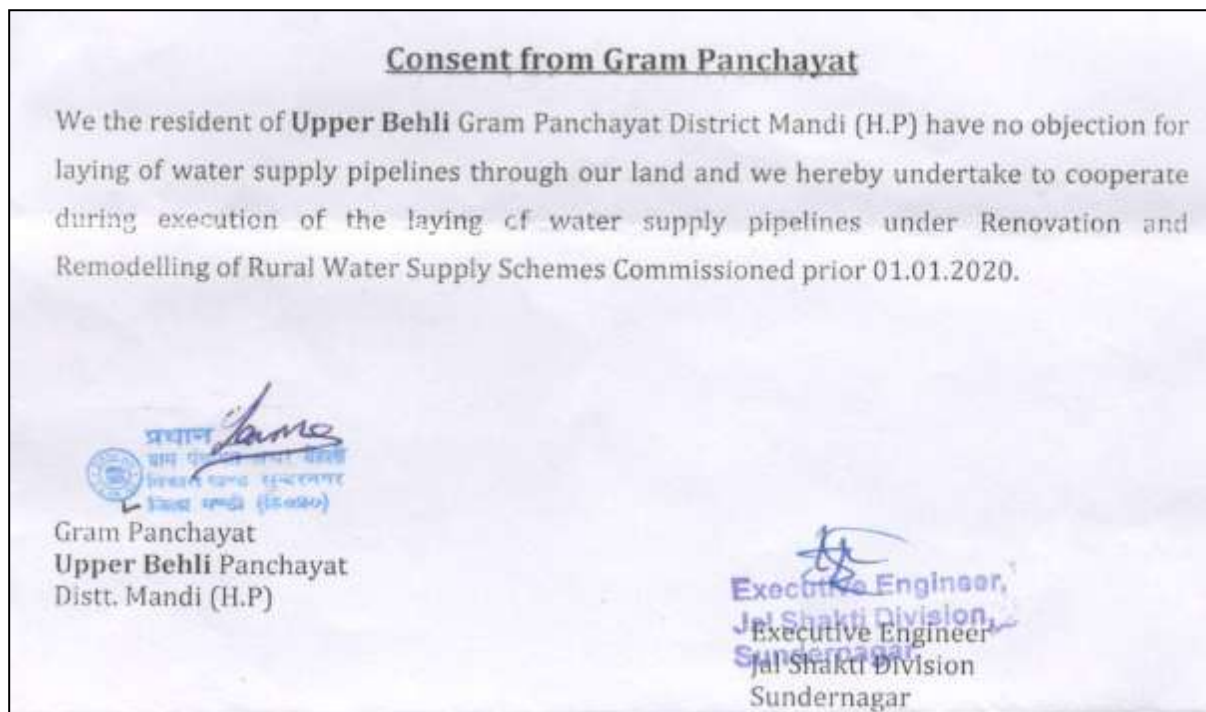
GRID- MS 5, WSS Behli Mahadev

Gram Panchayat: Mahadev



GRID- MS 5, WSS Behli Mahadev

Gram Panchayat: Upper Behli



GRID- MS 5, WSS Behli Mahadev, WSS NeriKangerPanyash**Gram Panchayat: Chambi**

Consent from Gram Panchayat

We the resident of **Chambi** Gram Panchayat District Mandi (H.P) have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water Supply Schemes Commissioned prior 01.01.2020.

Gram Panchayat
Chambi Panchayat
Distt. Mandi (H.P)

Executive Engineer,
Jal Shakti Division
Sundernagar

GRID- MS 5, WSS Behli Mahadev**Gram Panchayat: Palohata**

Consent from Gram Panchayat

We the resident of **Palohata** Gram Panchayat District Mandi (H.P) have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water Supply Schemes Commissioned prior 01.01.2020.

Gram Panchayat
Palohata Panchayat
Distt. Mandi (H.P)

Executive Engineer,
Jal Shakti Division
Sundernagar

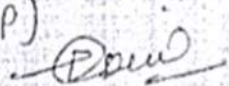
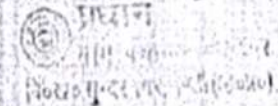
GRID- MS 5, WSS Behli Mahadev


Gram Panchayat: Doldhar

Consent from Gram Panchayat

We the resident of Doldhar Panchayat District Mandi (H.P.) have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water Supply Schemes Commissioned prior 01.01.2020

Gram Panchayat
Doldhar Panchayat
Distt. Mandi (H.P.)


Executive Engineer
Jal Shakti Division
Sundernagar

GRID- MS 5, WSS NeriKangerPanyash

Gram Panchayat: Chowk

Consent from Gram Panchayat

We the residents of Chowk Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01 2000

Gram Pradhan [Signature] Panchayat
[Stamp] District
(Sign and stamp)

[Signature]
Executive Engineer,
Jal Shakti Division,
Sundernagar
Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MS 6, WSS BehiSerhi

Gram Panchayat: Bahi Sarahi

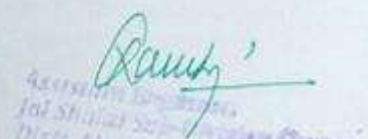

Consent from Gram Panchayat

We the residents of Bahi Sarahi Gram Panchayat District Mandi Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000



Gram Pradhan
Panchayat
स्तावर 11-12-2020 District
(Sign and stamp)


Executive Engineer
Executive Engineer,
Jal Saniti Division
Distt. Mandi
Jal Saniti Vibhag
(Sign and Stamp)


Assistant Engineer,
Jal Saniti Division
Distt. Mandi


GRID- MS 6, WSS MashogKotlu

Gram Panchayat: Mashogal

Consent from Gram Panchayat

We the residents of Mashogal Gram Panchayat, District Mandi Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Gram Pradhan

G.P. MASHOGAL Panchayat

Mandi District
(Sign and stamp)



Behar Singh

[Signature]

[Signature]

Executive Engineer

[Signature]
Jal Shakti Division
Distt. Mandi (H.P.)
Division
Jal Shakti Vibhag
(Sign and Stamp)

[Signature]
Assistant Engineer,
Jal Shakti Sub-Division
Distt. Mandi (H.P.)

GRID- MS 6, WSS PangnaNagrown

Gram Panchayat: Pangna

Consent from Gram Panchayat

We the residents of Pangna Gram Panchayat District Mandi Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned in the year 2000.



Gram Panchayat: _____ Panchayat

हस्ताक्षर _____
दिनांक 11/12/2020 District _____

(Sign and stamp)

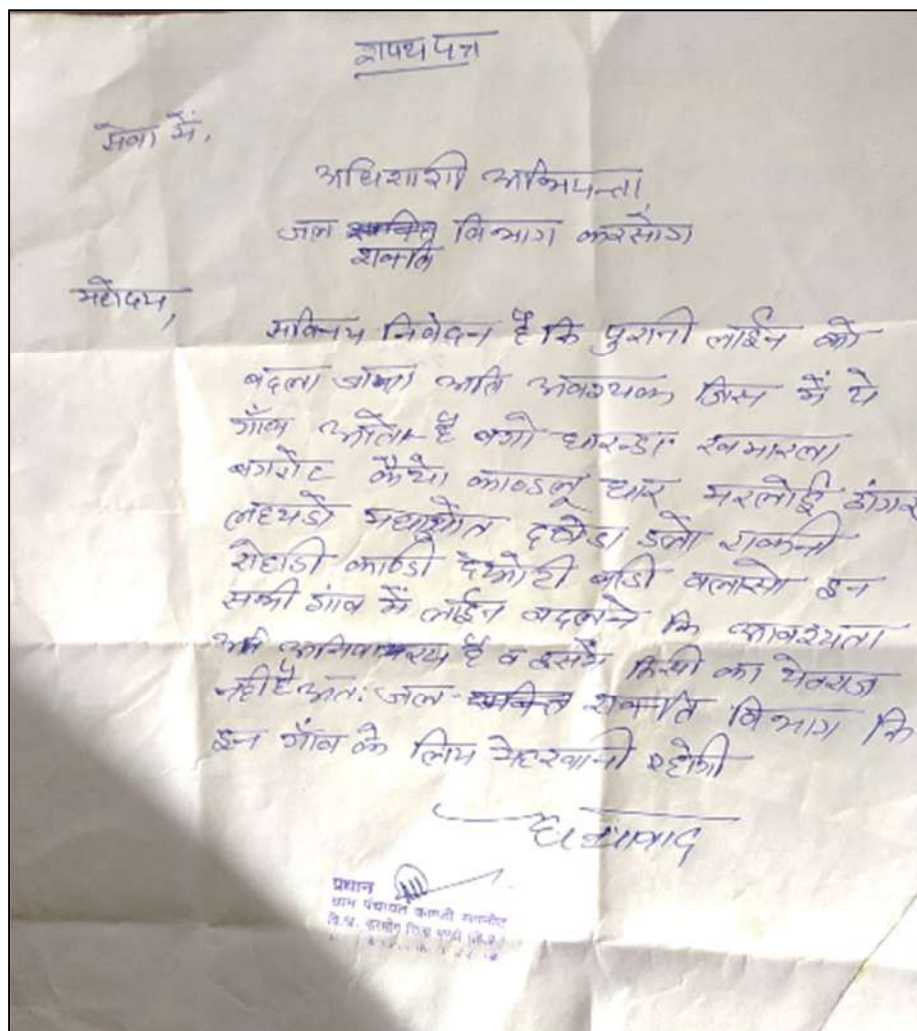

Executive Engineer
**Executive Engineer,
Jal Shakti Division Nagrawa,
Distt. Mandi (H.P.)**
District _____
Jal Shakti Vibhag
(Sign and Stamp)


Assistant Engineer,
Jal Shakti Sub-Division Ch...
Distt. Mandi (H.P.)



GRID- MS 6, WSS Dhar Khandlu

Gram Panchayat: KandhiSapnot



Transcript

Affidavit

To,
Executive Engineer
Water Department,
Karsog Shimla

Sir,

The civil request is that it is very important to change the old line in which these villages come, Bago Dharandakhamrara, Bagrot, Kaitho, Kandlu Dhar, Marlai, Thang, etc. In all these villages there is need of changing the lines at utmost urgency. No body has objection in laying of pipelines thus, Jal Shakti Vibhag will be kind to these villages.


Thanks


GRID- MS 6, WSS BajhiBhabi


Gram Panchayat: Bakhroth

अनापति प्रमाण पत्र (11)

प्रमाणित किया जाता है कि ग्राम पंचायत बखरोठ के लिए जो पेयजल लाइन बाह्य भागी विभाग द्वारा लाई जा रही है, उसमें पेयजल स्रोत नसरार नाला से पेयजल लाइन बिद्वाने व ग्राम पंचायत बखरोठ के अन्तर्गत निजी भूमि पर टैंक बनाने और लाइन बिद्वाने पर किसी भी ग्रामीण व ग्राम पंचायत को कोई भी आपत्ति नहीं होगी। अतः जल शक्ति विभाग हिमाचल प्रदेश सरकार अनापति प्रमाण पत्र अगामी कार्यवाही हेतु सेवा में प्रेषित है।


 हस्ताक्षर: _____
 दिनांक: 16/12/2020


 Assistant Engineer,
 Jal Shakti Division
 Distt. Mandi (H.P.)


 Executive Engineer,
 Jal Shakti Division
 Distt. Mandi (H.P.)

Transcript

No objection certificates

It is certified that the drinking water line side for Gram Panchayat Bakhrot is being brought by the prospective department. It includes laying of drinking water lines from drinking water source Nakara Nala and construction of tanks on private land under Gram Panchayat Bakhrot. No rural and gram panchayat will have any objection to laying the line. Thus, No Objection Certificate to Department of Jal Shakti, Himachal Pradesh is forwarded to such service.

GRID- MS 6, WSS Sansa

Gram Panchayat: Sandal


कार्यालय ग्राम पंचायत. श्री धर्म सिंह

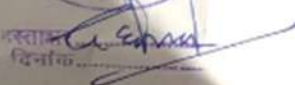
विकास खण्ड..... जिला मण्डी (हि०प्र)
 आज दिनांक 23.11.2020 को ग्राम पंचायत श्री धर्म सिंह की मासिक/विशेष
 ग्राम सभा बैठक प्रधान श्री/श्री मति श्री धर्म सिंह की अध्यक्षता में सम्पन्न हुई
 जिसमें उपस्थिति 6 रही, जिसमें निम्नलिखित कार्यवाही अमल में लाई गई।

प्रस्ताव संख्या.....03..... दिनांक.....

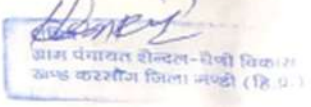
WSS ग्राम के तहसू स्वीकृति लेने के
 बैठक के अखिर प्रस्तावों में
 प्रस्ताव रखा कि ग्राम पंचायत के तहसू के कोसस स्वीकृति
 लेने के लिए, प्रस्ताव, पुनर्निर्माण के तहसू जो पार्षद
 लक्ष्मण सिंह जी द्वारा उभय लोको की बैठक की आपत्ति
 करती है। अतः में सर्व सहमत है प्रस्ताव पारित
 है कि सहायक अभियंता जब आदिना प्रस्ताव उप
 ग्राम पुनर्निर्माण के लिए आप उभय लोको
 गांव के लिए कोसस ग्राम के तहसू जो पार्षद लक्ष्मण
 सिंह जी द्वारा उभय लोको प्रस्ताव को स्वीकृति
 करें।

प्रमाणित किया जाता है कि
 प्रस्ताव प्रस्ताव प्रस्ताव में सभी वी





प्रस्ताव संख्या..... दिनांक.....



Transcript

Office Gram PanchayatSandal Dhaidi.....
 Vikas Khand.....Karsog.....District Mandi (H.P.)
 Todays date: 23.11.2020Gram Panchayat Sandal Dhaidi..... Monthly Special Gram
 Sabha Meeting of The Pradhan concluded under the chairmanship of Sri Dharm Singh in which 6/7
 attendance was recorded, In which the following action was taken

GRID- MS 8, WSS Bhurla

Gram Panchayat: Lot

Consent from Gram Panchayat

We the residents of Lot Gram Panchayat, District Mandi Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01-01-2000.

Gram Pradhan [Signature]
दिनांक LOT Panchayat

Mandi District [Signature]
(Sign and stamp)

[Signature]
Assistant Engineer,
Jal Shakti Sub-Division,
Gohar.

[Signature]
Executive Engineer
I & PH Division [Signature]
Distt. Mandi (H.P.)
B-331 Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MS 8, WSS Ger Kunsot and WSS Bag Karnala

Gram Panchayat: Tunna

Consent from Gram Panchayat Tunna MS-8

We the residents of Tunna Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.



Gram Pradhan
Tunna Panchayat

Mandi District
Sign and stamp

e/s
m
Assistant Engineer,
Jai Shakti Sub-Division,
Gohar.


g/s
Executive Engineer
I & PH Division *Baga'*
Distt. Mandi (H.P.) *Sundernagar*
Division
Jai Shakti Vibhag
(Sign and Stamp)

GRID- MS 8, WSS BhagarTrohi and WSS ShallaBhushala

Gram Panchayat: Dhisti

Consent from Gram Panchayat *Dhisti MS-8*


We the residents of *Dhisti* Gram Panchayat, District *Mandi*, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.




Gram Pradhan
Dhisti Panchayat

Mandi District
(Sign and stamp)

c/s
m


Assistant Engineer,
Jai Shakti Sub-Division,
Gohar.


Executive Engineer
I & PH Division *Boggar*
Distt. Mandi (H.P.)
Boggar Division
Jai Shakti Vibhag
(Sign and Stamp)

GRID- MS 8, WSS Sandoa and WSS Shalla Bhushala

Gram Panchayat: Shalla

Consent from Gram Panchayat Shalla MS-8

We the residents of Shalla Gram Panchayat, District Mandi Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.




(Sign and stamp)


नाम.....
दि.ंक.....

Shalla Panchayat

Mandi District


Assistant Engineer,
Jal Shakti Sub-Division,
Gohar,


m



Executive Engineer
I & PH Division Sundernagar
Distt. Mandi (H.P.)
Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MS 9, WSS Shangri Samnos

Gram Panchayat: KandhiKamroonag

Consent from Gram Panchayat

We the residents of Kandhi Kamroonag Gram Panchayat, District Mandi Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.



Gram Pradhan
Kandhi Kamroonag Panchayat
Mandi District
(Sign and stamp)

18/12/20
cl/s
m


Executive Engineer
I & PH Division
Distt. Mandi (H.P.)
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MS 9, WSS Jail Bhalothi


Gram Panchayat: Dhisti


Consent from Gram Panchayat Dhisti MS-9

We the residents of Dhisti Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.



Gram Pradhan
Dhisti Panchayat
Mandi District
(Sign and stamp)


**Assistant Engineer,
Jai Shakti Sub-Division,
Gohar.**



**Executive Engineer
I & PH Division
Distt. Mandi (H.P.)**
Division
Jai Shakti Vibhag
(Sign and Stamp)

GRID- MS 9, WSS Tuna Dari

Gram Panchayat: Tunna

Consent from Gram Panchayat Tunna MS9

We the residents of Tunna Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.


Gram Pradhan

[Signature] Tunna Panchayat
Mandi District
(Sign and stamp)

[Signature]
Assistant Engineer,
Jal Shakti Sub-Division,
Gohar.

[Signature]
Executive Engineer
I & PH Division
Distt. Mandi (H.P.)
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MS 9, WSS KhananooSalyandi

Gram Panchayat: Shalla

Consent from Gram Panchayat *Shalla MS-9*

We the residents of Shalla Gram Panchayat, District Mandi Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.



राज्यपाल Mandi District
(Sign and stamp)

g/s
m
Assistant Engineer,
Jai Shakti Sub-Division,
Gohar,


HE
Execu Executive Engineer
I & PH Division *Bojji*
Distt. Mandi, (H.P.)
Bojji Division
Jai Shakti Vibhag
(Sign and Stamp)

GRID- MS 9, WSS Barjohru

Gram Panchayat: Noun

Consent from Gram Panchayat

We the residents of Noun. Gram Panchayat District Mandi Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.




Gram Pradhan Basika Noun Panchayat
09/08/2021

Mandi District
(Sign and stamp)

↓

Assistant Engineer
Jai Shakti Sub-Divn.
Gohar



Executive Engineer,
Jai Shakti Division,
Barjohru Division
Jai Shakti Vibhag
(Sign and Stamp)

GRID- MS 9, WSS BalhariKaudu Ra Kautala

Gram Panchayat: Balhri

Consent from Gram Panchayat *Balhri*

We the residents of *Balhri* Gram Panchayat, District *Mandi* Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01 01 2000.


Gram Pradhan
Balhri Panchayat
Mandi District

(Sign and stamp)
हस्ताक्षर *[Signature]*
दिनांक *18/12/2020*

[Signature]
Assistant Engineer,
Jai Shakti Sub-Division,
Gohar.

[Signature]
Executive Engineer
I & PH Division *[Signature]*
Distt. Mandi (H.P.)
[Signature] Division
Jai Shakti Vibhag
(Sign and Stamp)

GRID- MS 15, WSS BalhariKaudu Ra Kautala

Gram Panchayat: Jhungi

Consent from Gram Panchayat

We the residents of Jhungi Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Gram Pradhan

[Signature] Panchayat
[Signature] District
(Sign and stamp)

[Signature]
Executive Engineer
Executive Engineer,
Jal Shakti Division (Kangra),
Distt. Mandi (H.P.) Division
Jal Shakti Vibhag
(Sign and Stamp)

[Signature]

[Signature]
Assistant Engineer,
Jal Shakti Sub-Division Ch
Distt. Mandi (H.P.)

GRID- MS 15, WSS BalhariKaudu Ra Kautala

Gram Panchayat: Mashogal

Consent from Gram Panchayat

We the residents of Mashogal Gram Panchayat, District Mandi, Himachal Pradesh, have no objection for laying of water supply pipelines through our land and we hereby undertake to cooperate during execution of the laying of water supply pipelines under Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Gram Pradhan

G.P. MASHOGAL Panchayat

Mandi District

(Sign and stamp)



[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

Executive Engineer



Executive Engineer
Jal Shakti Division, Region
Dist. Mandi (H.P.) Division
Jal Shakti Vibhag
(Sign and Stamp)


[Handwritten signature]
Assistant Engineer,
Jal Shakti Sub-Division Circle,
Distt. Mandi (H.P.)

Appendix 5: Land Records, Consents and Socio-Economic Profile of Voluntarily Private Land Donors
Table 5-1: Summary of Land Donors

S. No.	Grid	Scheme Name	Proposed component	Name of Village/ Tehsil	Required area (sqm)	Area of Plot (sqm)	Name of the Landowner/ Donor	Khasra No.	Availability of Land Records/No Objection Certificate	Present Land Use of the Plot	Involuntary Resettlement Impact
1	MS 5	WSS Behli Mahadev and WSS NeriKang erPanyas h	Proposed PH at MBR-1	Purana Bazaar Sundernagar	48	2887	Mr. Hem Prabh& Others	971	Yes	Unused Vacant Land	Nil
			Proposed MBR-1	Purana Bazaar Sundernagar	81					Unused Vacant Land	
2	MS 5		Proposed SR near ShitlaMatla Temple	Village Manjhrot P.O Chambi	100	3525	Mr. Prem Singh	1089	Yes	Unused Vacant Land	Nil
3	MS 5		Proposed MBR-2 (Draman)	Bhushwandi P.O. Chambi	64	2525	Mr. Acchru Ram	273	Yes	Unused Vacant Land	Nil
4	MS 5		Proposed 155 KL OHT near Bhim Singh House	Village Bharari P.O. Chambi	144	1865	Mr. BhimSingh	160	Yes	Unused Vacant Land	Nil

Table 5-2: Socio-Economic Profile of Voluntary Land Donors

S. No	Name of Landowner	No. of Family Member(s)	Khasra No.	Total Land Holding (including the land for sell) (Sqm)	Total Land Area Required for component (sqm)	Total Land Share of the owner (sqm)	% of Land to be Used for proposed Construction Against Total Land Holding	Present Land Use of the Plot	Any other Structure / Trees/ Crops on the plot	Primary Occupation of HH	Alternate means of Livelihood/ Income Available	Total Monthly Family Income of HH	Per head per month income	Total annual Income from the Affected Plot	Type of House	Category	APL / BPL	Assets	Whether any vulnerability	Photograph
1	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1.	Mr. Hem Prabh	8	971	3237	129	3237	3.98%	100%	Unused Vacant Land	Farmer	Pvt. Buisness	120000	15000	0	puuca	GEN	APL	2non-smart phones, fridge, 1 TV, 1 two-wheeler, couch	No	Not Available
2.	Mr. Prem Singh	6	1089	3642	100	3642	2.7%	100%	Unused vacant land	Govt Employee	Pvt. Buisness	100000	16667	0	Pucca	GEN	APL	1 Four-Wheeler, 1 smart phones, fridge, 1 smart TV, 1 two-wheeler, couch	No	
3.	Mr. Accharu Ram	10	273	2752	64	1376	4.64%	100%	Unused Vacant Land	Farmer	Pvt. Buisness	60000	6000	0	Pucca	GEN	APL	1 Four-Wheeler, 3 smart phones, 3 non-smart phones, fridge, 2 TVs, 2 two-wheelers, couch, bicycle	No	

4.	Mr. Bhim Singh	5	160	2093	144	1417	6.88 %	100%	Unuse d Vacant Land	Rtd. Army Officer	Pvt. Buisnes s	20000 0	4000 0	0	Pucc a	GE N	AP L	1 Four- Wheeler , 4 smart phones, fridge, 2 TVs, 1 two- wheeler , couch	No	
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MS-5

Proposed Pump House near MBR-1 and Proposed MBR-1 (Manjrot)

Consent from Land Owner

I, Hem Prabh son/daughter of _____

am a permanent Resident of Ward no Purana Bazar Sundernagar Tehsil and District Mandi Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own land comprising of Khasra Nos. 971 I hereby give my consent to donate 12.9 ^{sq} m² of Land to the Jai Shakti Vibhag Himachal Pradesh for construction of tank & Pump House component under **Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.**


Signature of Land Owner

1. Hem Prabh Sharma

2. _____

Gram Pradhan
Panchayat

(Sign and Stamp)


**Executive Engineer,
Jai Shakti Division,
Sundernagar.** Division

Jai Shakti Vibhag
(Sign & Stamp)

राजस्व विभाग, हिमाचल प्रदेश - नकस जमाबंदी

सूचनाएं: 2021/343/2019

दिनांक: 03-11-2021
संख्या: 2018-2019
पृष्ठ: 20

सूचना नं. (उत्तरांचल) : 220/2021
जमा बंदी का मसौदा जमा लेखपत्र : 2018/2019
सूचना नं. (उत्तरांचल) : 220/2021
जमा बंदी का मसौदा जमा लेखपत्र : 2018/2019

कुल क्षेत्रफल : 3.85 वर्ग किलोमीटर (1.77 वर्ग मील)

जमा बंदी का मसौदा जमा लेखपत्र : 2018/2019
सूचना नं. (उत्तरांचल) : 220/2021
जमा बंदी का मसौदा जमा लेखपत्र : 2018/2019

सूचना नं.	जमा बंदी का मसौदा जमा लेखपत्र	जमा बंदी का मसौदा जमा लेखपत्र	जमा बंदी का मसौदा जमा लेखपत्र	जमा बंदी का मसौदा जमा लेखपत्र	जमा बंदी का मसौदा जमा लेखपत्र
220/2021	2018/2019	371	03-11-2021	2018/2019	2018/2019

[Handwritten Signature]

दिनांक : 03-11-2021
पृष्ठ संख्या : 1

राजस्व विभाग, हिमाचल प्रदेश - नकस शजरा किरतवार बन्दोबस्त जदीद (मुराकी पैमाना: 1 INCH = 20 KARAM)

सूचना नं. (उत्तरांचल) : 220/2021
जमा बंदी का मसौदा जमा लेखपत्र : 2018/2019

सूचना नं.	जमा बंदी का मसौदा जमा लेखपत्र	जमा बंदी का मसौदा जमा लेखपत्र
971	220	235
975	182	197
969	220	238
972	220	238
970	403	407
968	78	84

1 INCH = 20 KARAM

सूचना नं. (उत्तरांचल) : 220/2021
जमा बंदी का मसौदा जमा लेखपत्र : 2018/2019

दिनांक : 03-11-2021
पृष्ठ संख्या : 1

Revenue Department, Himachal Pradesh – Copy Jamabandi

District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: ChambiHadbast No. 20 Date: 2018- 2019

Khewat No. (Hal/ Sabka) : 220/204

Name patti or Tarf Name Numberdar: BashrahKhewat No. (1)

Mutabla and sarhmuabla and: 3.85 Mal 2.08 sawai 1.77

Name Owner and ahwal: Total Part (1790880) munnii Lal (91200) part son Krishna ram, Prem Lal bhag Total (213200) part son and Mrs Gomti, MrsKauslya, Mrs Jayanti Part total (127920) Part Daughters and sons Ramsaran Dila ram surname bhau, Gopal krishna surname Gopal, Ramesh, Shyamalbahagbarabar (167895) part son Srimati Champa Devi, Srimati Nirmala, Srimati shakuntla, Srimati Kushma part equal (55965) BhagPubiyaThakar son Vallabh munnii Lal (111930)part son and Lekh ram, Rtanlal, Nilambar part equal (59696) part daughters and Srimati Dayawanti, Srimati sisnadevi part equal, (14924) Part widow Naryan son Hardevshailes Kumar, Kamal Kant, Naredra Kumar, son and srimati raj balla daughter and srimatichampa widow BalibhadronHardev part equal (74620) Part sanjeevkumar son and Srimati pushpadevi daughter Madhvindhi son Januku part equal (186550) Part Native srimatiKamli, Srimati Nikki daughter Kali Kant son janku part equal (223860) Bhagniwasi purana bazar Jai ram son kundan son dumadu (15400) part native citizen.

Khtauni Number	Name Sinus and Ehal	Name and Digr Number Khsra Hal basayalaapbasi	Rakba Har khet and Mizan Mai kismArajimatrikikaiyo me	Part or Measure hakiyat and tarikabaj	Kafiyat
239 223	Hemprabh	971	03-11-07	Khewat Number 1	Note :XXXX

Revenue Department, Himachal Pradesh – NaklSajraKistwarBandobastJadid (MusawiPaimana: 1 inch = 20 inch)

District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: ChambiHadbast No. 20 Date: 2018- 2019
Area 03.11.2007

Khsra No.	Khewat No.	Khatauni No.
971	220	239
975	182	197
969	220	238
972	220	238
970	463	497
968	78	84

MS-5

Proposed SR near ShitlaMatla temple

Consent from Land Owner

I, Prem Singh son/daughter of Sh. Ramesh Ram
am a Permanent Resident of Ward no Vill- Chamri Tehsil and District
Sunder Nagar Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own
~~with my wife (M)~~ land comprising of Khasra Nos. 1089 I hereby give
my consent to donate 100 m² of Land to the Jal Shakti Vibhag Himachal Pradesh for
construction of storage tank component under Renovation and
Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Signature of Land Owner

1. [Signature] _____ Panchayat

2. _____

(Sign and Stamp)

[Signature]
Executive Engineer
Jal Shakti Division
Sundernagar Division

Jal Shakti Vibhag
(Sign & Stamp)

Revenue Department, Himachal Pradesh – Copy Jamabandi

District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: ChambiHadbast No. 20 Date: 2018- 2019

Khewat No. (Hal/ Sabka) : 273/263

Name patti or Tarf Name Numberdar: BashrahKhewat No. (1)

Mutabla and sarhmuabla and: 6.49 Mal 3.51 sawai 2.98

Name Owner and ahwal: Total Part (100) Gulab Singh, Prem Singh and Gopal Singh Son Pumpa Son Bhola equal Part (20) part Nilam Kumar, Hem Singh Son smt. Raj kumari equal part (3) Part Daughter and smt.Kanta Devi, Smt. Lila Devi equal part (1) part Widow Ghanshyam Son Paras Ram Chint Ram Son and Smt. Hima Devi Widow Paras Ram Son Daya Ram equal part (12) part Ajay Kumar Son Smt. Devki Devi Daughter Paras Ram (4) Part Aatma ram (20) Part son and Smt. Parvati (40) Part Daughter Daya Ram Son Shindu native citizen.

Khtauni Number	Name Sinus and Ehal	Name and Digr Number Khsra Hal basayalaapbasi	Rakba Har khet and Mizan Mai kismArajimatrikikaiyo me	Part or Measure hakiyat and tarikabaj	Kafiyat
293	Cast and capture self	1089	04-07-2003 04-00-00 Plantation varani fruitful		1234 Varast 1240 Varast 1311 Varast
283			00-07-03	Khewat Number 1	Note :XXXX

Revenue Department, Himachal Pradesh – NaklSajraKistwarBandobastJadid (MusawiPaimana: 1 inch = 20 inch)

District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: ChambiHadbast No. 20 Date: 2018- 2019
Area 04.07.2003

Khsra No.	Khewat No.	Khatauni No.
1089	273	293
418	116	123
1091	146	159
1092	148	161
1086	463	495
1088	463	495
1096	493	495
419	463	495
417	463	501
1095	97	103

MS-5**Proposed MBR-2 (Draman)****Consent from Land Owner**

1. Ascharu Ram son/daughter of Sd. Narsingh Dars

am a permanent Resident of Ward no. Bunshwari P.O. Chamki Tehsil and District
 _____ Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own

land comprising of Khasra Nos. 273 I hereby give

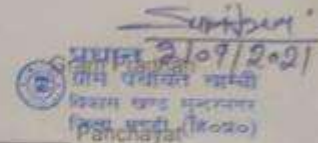
my consent to donate 64 m² of Land to the Jal Shakti Vibhag Himachal Pradesh for
 construction of Main Storage tank component under **Renovation and**

Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Signature of Land Owner

1. [Signature]

2. _____




(Sign and Stamp)

[Signature]
Executive Engineer,
Jal Shakti Division,
Sundernagar

Division

Jal Shakti Vibhag

(Sign & Stamp)



Digitally signed By:
Director Land Records
Date: 02/09/2021
11:21:22

राजस्व विभाग, हिमाचल प्रदेश - नकल जमाबंदी

रॉल नम्बर: 30213447963

पदवी का पंजीयन
क्या है नहीं: बी.पी. वि.

जिला: कांगड़ा
सोहन: 02/09

सब-डिवीजन: सुन्दरगढ़
हदबस्त नं.: 106

सब-डिवीजन: सुन्दरगढ़
साल: 2015-2016

पदवी का पंजीयन
क्या है नहीं: बी.पी. वि.

खेत नं. (प्राथमिक/सामान्य) : 52 (52)
 नकल पदवी का प्रथम नाम नम्बर/दस्ता : पदवी नं. (1)
 कुल क्षेत्रफल व खेत कुल क्षेत्रफल व खेत : 4.90 गज 2.85 एकड़ 2.29

नकल सार्वजनिक व खेती/खेती : दुग्ध पशु उत्पादन, उत्पादन दाम, जौल दाम, पौल दाम, कपड़ीर सिंग, म्हेरा कुमर, पुर मरिचि दाम पुर उला भाग बाजार स्थानिय गाँव

खेती नं.	जल संचयन व खेती	जल संचय व टैलर नम्बर बंधन दाम खेती	किसान का नाम व पता	किसान का पता	किसान का पता
52	खेती नं. 52	273	03-02-08	खेत नं. 52	नं. 52
56	खेती नं. 56		07-11-04	खेत नं. (1)	458
			00-11-04		458
					खेत नं. 52

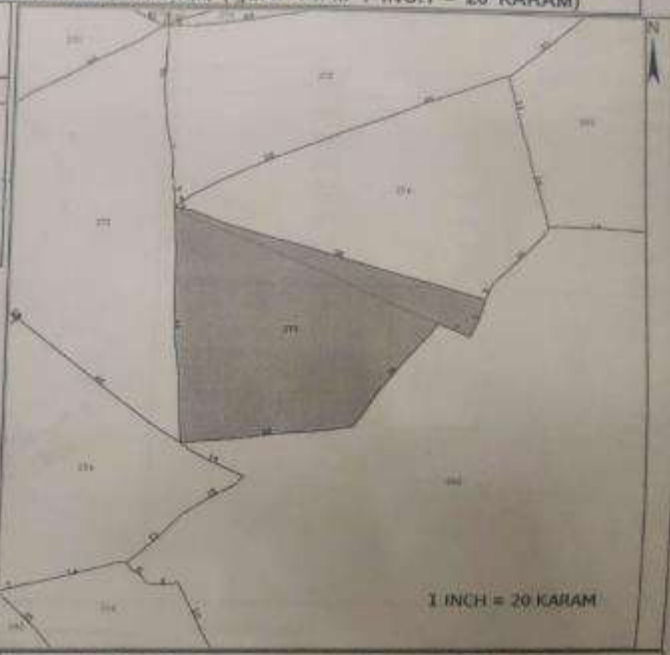
Handwritten signature and date: 08/09/2021

Handwritten text: सुन्दरगढ़ जिला, नकल जमाबंदी (वि. नं. 52)

नोट - खेत नं. 52 के क्षेत्रफल 4.90 गज 2.85 एकड़ 2.29 है। इसमें से 2.29 एकड़ 2.29 गज का क्षेत्रफल खेती नं. 52 के नाम पर है। बाकी का क्षेत्रफल खेती नं. 56 के नाम पर है।

राजस्व विभाग, हिमाचल प्रदेश - नकल शजरा किरतवार बन्दोबस्त जदीद (मूसावी पैमाना: 1 INCH = 20 KARAM)

खेती नं.	खेत नं.	खेती नं.
273	52	56
343	155	161
354	173	179
272	80	54
274	51	55
275	53	57



1 INCH = 20 KARAM

खेत नं. 52 के सार्वजनिक व खेती/खेती : दुग्ध पशु उत्पादन, उत्पादन दाम, जौल दाम, पौल दाम, कपड़ीर सिंग, म्हेरा कुमर, पुर मरिचि दाम पुर उला भाग बाजार स्थानिय गाँव

यह नकल कैदीय सार के तहत से 02/09/2021 11:21 AM समय पर बनाई गई है।

To Verify/Validate digitally signed copy, please visit the URL: <http://mca.gov.in> and enter your Receipt No 30213447963

Revenue Department, Himachal Pradesh – Copy Jamabandi

District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: DaramanHadbast No. 106 Date: 2015- 2016

Khewat No. (Hal/ Sabka) : 52/52

Name patti or Tarf Name Numberdar: BashrahKhewat No. (1)

Mutabla and sarhmuabla and: 4.90 Mal 2.65 sawai 2.25

Name Owner and ahwal: Duni Chand surname Achharu ram, Jit Ram, Chet Ram, Kashmir Singh, Mahesh Kumar Son NarshinghDass Son Chhanga equal Part native citizen.

Khtauni Number	Name Sinus and Ehal	Name and Digr Number Khsra Hal basayalaapbasi	Rakba Har khet and Mizan Mai kismArajimatrikikaiyo me	Part or Measure hakiyat and tarikabaj	Kafiyat
56	Cast and capture self	273	03-02-08		458: Varast 459: Faki odd rahn Note
56			02-11-04 Khandtar 00-11-04 Banjar Kavle Kast	Khewat Number 1	:XXXX

Revenue Department, Himachal Pradesh – NaklSajraKistwarBandobastJadid (MusawiPaimana: 1 inch = 20 inch)

District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: DaramanHadbast No. 106 Date: 2015- 2016

Area 03.02.2008

Khsra No.	Khewat No.	Khatauni No.
273	52	56
343	155	161
354	173	179
272	50	54
274	51	55
275	53	57

MS-5

Proposed 155 KL OHT near Bhim Singh House


Consent from Land Owner

1. Bhim Singh s/o/daughter of Late Sh. Upender Singh
am a permanent Resident of Ward no. Vill Sakrah Tehsil and District
Sundernagar Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own
land comprising of Khasra Nos. 160 I hereby give
my consent to donate 144 m² of Land to the Jal Shakti Vibhag Himachal Pradesh for
construction of over head storage tank component under Renovation and
remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Signature of Land Owner
1. M. P. Singh
2. _____

प्रधान 2/09/2021
Jal Shakti Vibhag
Sundernagar Panchayat

(Sign and Stamp)


Executive Engineer,
Jal Shakti Division,
Sundernagar Division

Jal Shakti Vibhag
(Sign & Stamp)

Revenue Department, Himachal Pradesh – Copy Jamabandi

District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: BharariHadbast No. 15 Date: 2015- 2016

Khewat No. (Hal/ Sabka) : 44/44

Name patti or Tarf Name Numberdar: BashrahKhewat No. (1)

Mutabla and sarhmuabla and: 19.74 Mal 10.67 sawai 9.07

Name Owner and ahwal: Total part (2) Bhim Singh Son Upender Singh Son Thakur Dass (10) part Vijay Singh Son Bhim Singh Son Upender Singh (1) part native citizen.

Khtauni Number	Name Sinus and Ehal	Name and Digr Number Khsra Hal basayalaapbasi	Rakba Har khet and Mizan Mai kismArajimatrikikaiyo me	Part or Measure hakiyat and tarikabaj	Kafiyat
50	Cast and capture self	160	02-06-02 Khadetar		
50				Khewat Number 1	Note :XXXX

Revenue Department, Himachal Pradesh – NakiSajraKistwarBandobastJadid (MusawiPaimana: 1 inch = 20 inch)

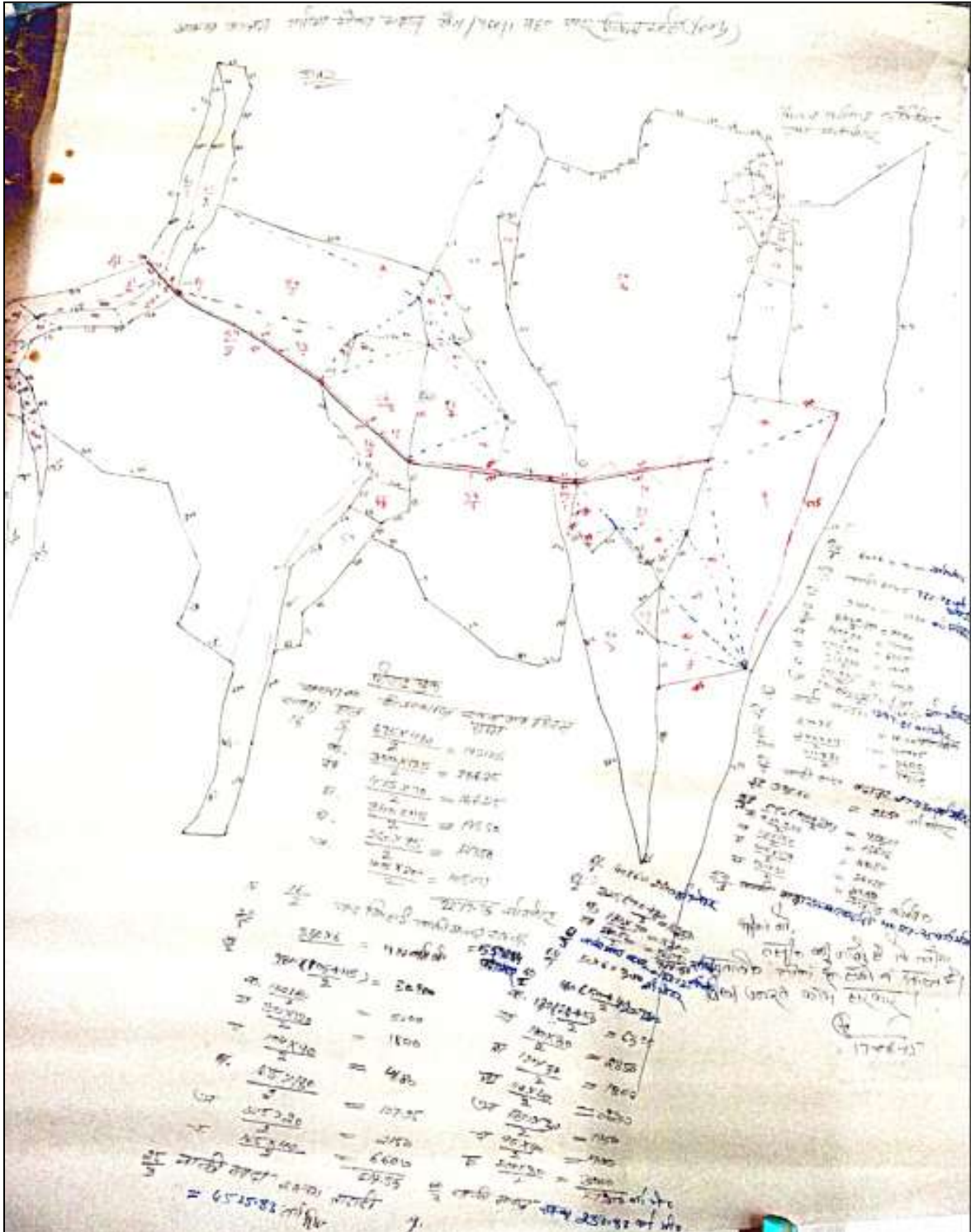
District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: BharariHadbast No. 15 Date: 2015- 2016
Area 02.06.2002

Khsra No.	Khewat No.	Khatauni No.
160	44	50
163	20	22
161	22	24
158	44	50
159	44	50
186	44	50
157	93	103

Appendix 6: Khasra Map, Revenue Records and Google Earth Imagery of proposed Water Treatment Plants

(A) Grid MS1- Proposed WTP in Village Sain Mohalla

(i) Khasra Map



(ii) Revenue Records

**Himachal Pradesh
Department of Revenue**

Welcome To Department Of Revenue

राजस्व विभाग, हिमाचल प्रदेश - नकल जमाबन्दी रसीद संख्या : 20213482847

जिला : मण्डी	तहसील : मण्डी	सामूहिकी वृत्त : सदर	पटवार वृत्त : सैण
हदबन्दी नं. : 366/1	मोहल्ल : सैण	साल : 2015-2016	रकबा हुंकार्डे : वर्ग-मीटर

खेत नं. (हाल/साबका) : 712 680
 नाम पट्टी या तर्फ मय नाम तन्बरदार : बशराह खेत नं. (1)
 मुलाबला व सारह मुजामला व हुबूब : 1779.00 माल 1368.46 स्वाई 410.54 कबले वसूल 10.08 माल 7.75 स्वाई 2.33 नाकबले वसूल 1768.92 माल 1360.71 स्वाई 408.21
 नाम मालिक व अहवाल : सरकार हिमाचल प्रदेश ----- जोड़ कुल देह

खताुनी नं.	नाम काबलाकार व पहचान	नाम पट्ट नाम खसरा हारा व दीगर वलाचन आबपाशी	रकबा हर खेत तरिका काछ मय किरम अचाली मीट्रिक हुंकार्डेची म	हिस्सा या पैगारा हुबीबत व कैफियत
862 मिन 840	कब्जा मालिक तावे हुबूक वर्तन बानिदारान मुलाधिक नकला वर्तन	16	7874-59 कब्जा व पहला बाराह खेत नं.(1) चारगाह देहा इदतान	

Transcript:

Revenue Department, Himachal Pradesh – Copy Jamabandi

District: Mandi Tehsil: Mandi Kanungo: Sadar Patwar: Sain
 Mohalla: Sain Hadbast No. 366/1 Date: 2015- 2016

Khewat No. (Hal/ Sabka) : 712/680
 Name patti or Tarf Name Numberdar: Bashrah Khewat No. (1)
 Mutabla and sarhmua bla and: 1779.00 Mal 1368.46 sawai 410.54 Kable Vasul 10.08 mal 7.75
 Sawai 2.33 Nakable Vasul 1768.92 mal 1360.71 Sawai 408.21
 Name Owner and ahwal: Government of Himachal Pradesh..... **Jod Kul Deh**

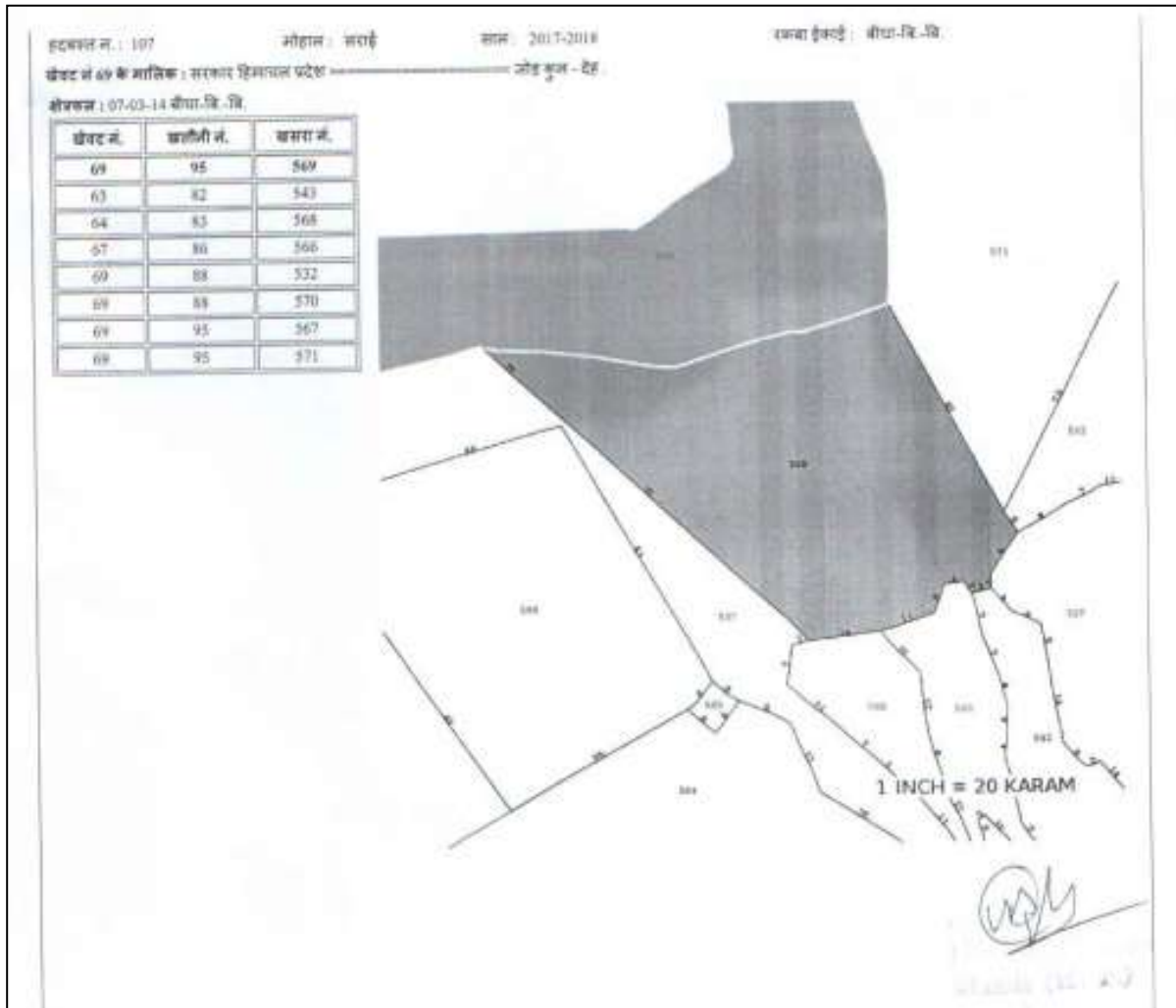
Khtauni Number	Name Sinus and Ehal	Name and Digr Number Khsra Hal basayalaapbasi	Rakba Har khet and Mizan Mai kism Arajimatrikikaiyo me	Part or Measure hakiyat and tarikabaj	Kafiyat
862 Mean		16	7874-59 Charagah Villa Dakhtan		
840				Khewat Number 1	

(iii) Google Earth Map



(B) Grid MS2- Proposed WTP at Bhanchwali


(i) Khasra Map



Hadbast No. 07 Mohalla: Sarai Date: 2015- 2016
 Khebat No. 69 owner : Government of Himachal Pradesh..... jodkulDeh
 Area: 07-03-2014Bigha

Khsra No.	Khewat No.	Khatauni No.
69	95	549
63	82	543
64	83	568
67	86	566
69	88	532
69	88	570
69	95	567
69	95	571

(ii) Revenue Records



Himachal Pradesh Department of Revenue

Welcome To Department Of Revenue

राजस्व विभाग, हिमाचल प्रदेश - नकल जमाबन्दी

रजिस्ट्र संख्या : 20215503625

जिला : सपौरी
हदबन्त नं. : 107

तहसील : सपौरी
मौजानं : सपौरी

कायमगरी वृत्त : सन्धाहड़
साल : 2017,2018

पाटवार वृत्त : चन्धाडा
रकबा हुंकराई : बीघा.दि.दि

खेट नं. (हाल/साबिक) : 69/03.स/09

माल पाली या तरक मय नाम जम्बखदार : बसंदा खेट नं. (1)

मुताबका व शरह मुजतमज व हुबूब : 17.08 माज 9.23 सवाई 7.85 काबले वसूल 1.13 माज 0.61 सवाई 0.52 साकाबले वसूल 15.95 माज 8.62 सवाई 7.33

नाम मालिक व पट्टाकाल : सरकार हिमाचल प्रदेश ----- जोड़ कुल - दिह :-

खाली नं.	नाम कास्तकार व पट्टाकाल	माज पाह नाम खसरा व दीगर हाल वसायत आबपाची	रकबा हिरजा या पैमाना हबीयत हर खेत व तरीका बाछ व मिजान मय किरम अराजी मीट्रिक हुंकाईची नं
95 निज 95	कब्जा वन विभाग ताबे हुकुम करील बरौजदारान मुताबिक नकशा वतोन	569	07-03-14 कब्जा व पट्टा बसंदा खेट नं.(1) जंगल मीहचुजा मीर नोवट्टा


न.ई.	दि.ई.	न.ई.	दि.ई.	न.ई.	दि.ई.
192	दिब्या	193	दिब्या		

नोट :- नम्बर खसरा 6-100-225 किंसा 3 तादादी 1-7-8 बीघा पर माली सिंहे को हुकुम घाला कटाई तरास है।

नोट :- नम्बर खसरा 26 का निस्का रकबा 0-11-16 मुहाल राजपहाल में है।

नोट :-नं. ख. 561 का निस्का रकबा मुहाल हबजी में शामिल हुआ है।

नोट :-नं. ख. 570 का निस्का रकबा मुहाल खौरी घण्टाघण में शामिल हुआ।



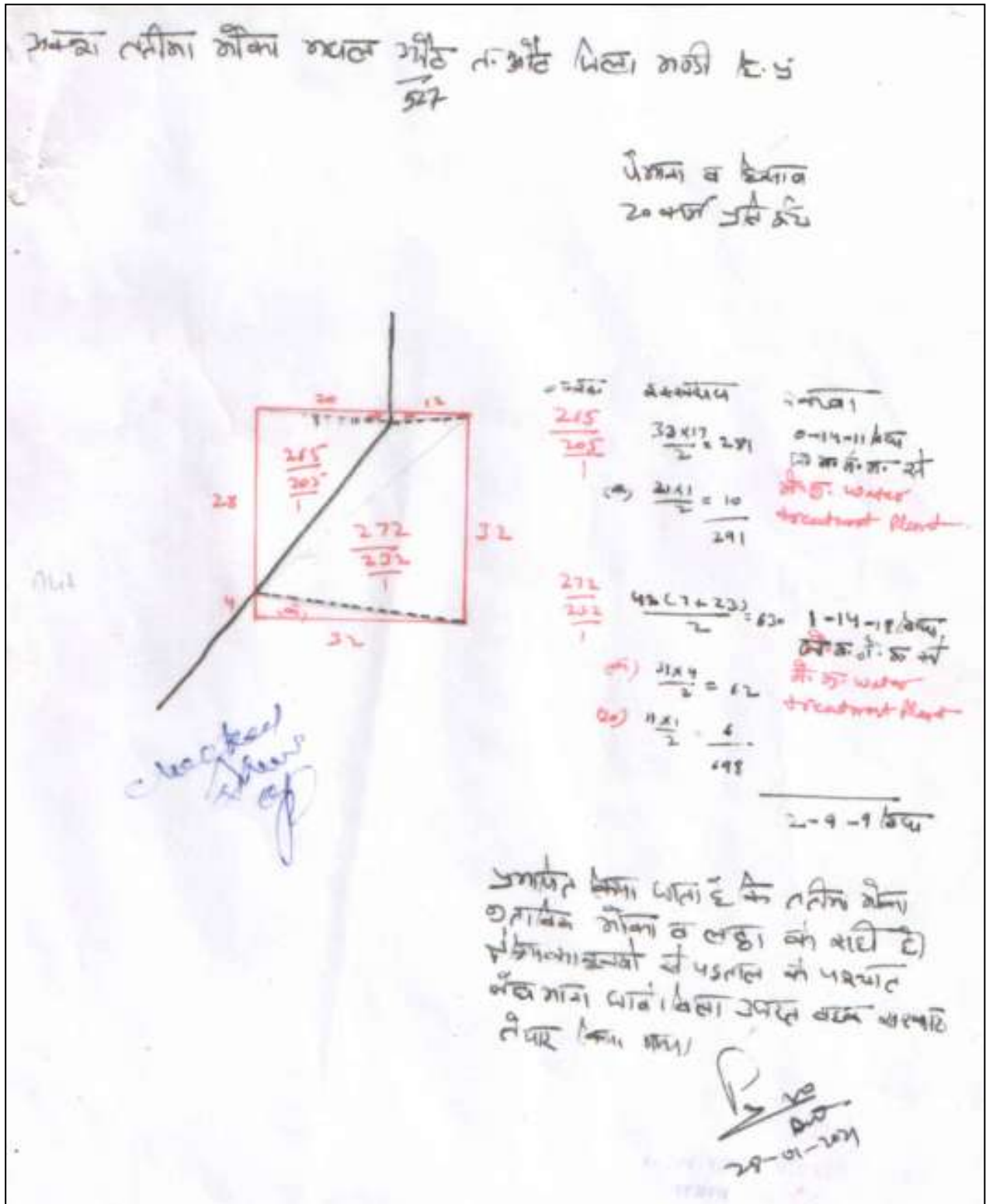
Revenue Department, Himachal Pradesh – Copy Jamabandi					
District: Mandi		Tehsil: Mandi	Kanungo: Talyahar	Patwar: Randhara	
Mohalla: Sarai		Hadbast No. 107	Date: 2017- 2018		
Khewat No. (Hal/ Sabka) : 69/63m/69					
Name patti or Tarf Name Numberdar: Bashrah Khewat No. (1)					
Mutabla and sarhmuabla and: 17.08 Mal 9.23 sawai 3.85 Kable Vasul 1.13mal 0.61 Sawai 0.52 Nakable Vasul 15.95 mal 8.62 Sawai 7.33					
Name Owner and ahwal: Government of Himachal Pradesh..... Jod Kul Deh					
Khtauni Number	Name Sinus and Ehal	Name and Digr Number Khsra Hal basayalaapbasi	Rakba Har khet and Mizan Mai kismArajimatrikikaiyo me	Part or Measure hakiyat and tarikabaj	Kafiyat
95 Mean		569	07-03-14 Forest		192 Himba
95				Khewat Number 1	192 Himba

(iii) Google Earth Map



(C) Grid MS3- Proposed WTP at Aut Village

(i) Khasra Map



(ii) Revenue Records

नाम :] पितापति :]		सन्तान :] सेवा पुत्रक : 20 कुल पुत्रक : 21					
मोहल : औट		सन्तान : 2012-2013		रकबा ईकाई: बीघा-दि-बि			
क्र.सं.	नाम मालिक व पट्टा	नाम बसालाबस्त व पट्टा	रकबा हाह व डीगद वसयस आकषसी	सम्बर ससउर इल	रकबा हर खेत व मिजान मात सय किलन अराजी मीट्रीक ईकाईमी मे	हिस्सा या विमाना एकीघत व लीकर बाछ	कफियत
2	3	4	5	6	7	8	9
11	सकान विमाना नईर,	कजा इन विमाना लवे बडीन बरिचयन		205210	01-10-11 अनर विमान मे मीट्री	अनर व पल ससउर 0100 म(र)	
जीव कुल - देर		HANVIR SIKH SCHOOL BAZAR SIKH - SADAR SIKH - MANDI H. O. 171001		475 अरिप मीट्रीक 010-10-11 अरिप मीट्रीक			
पट्टा - विमाना		दिनांक: 29-JUL-2021		पृष्ठ संख्या: 1			

Revenue Department, Himachal Pradesh – Copy Jamabandi

District: Mandi Tehsil: Kanungo:
 Mohalla: AautHadbast No. Date: 2012- 2013

Khewat No. (Hal/ Sabka) :
 Name patti or Tarf Name Numberdar: BashrahKhewat No. (1)
 Mutabla and sarhmuabla and:
 Name Owner and ahwal:

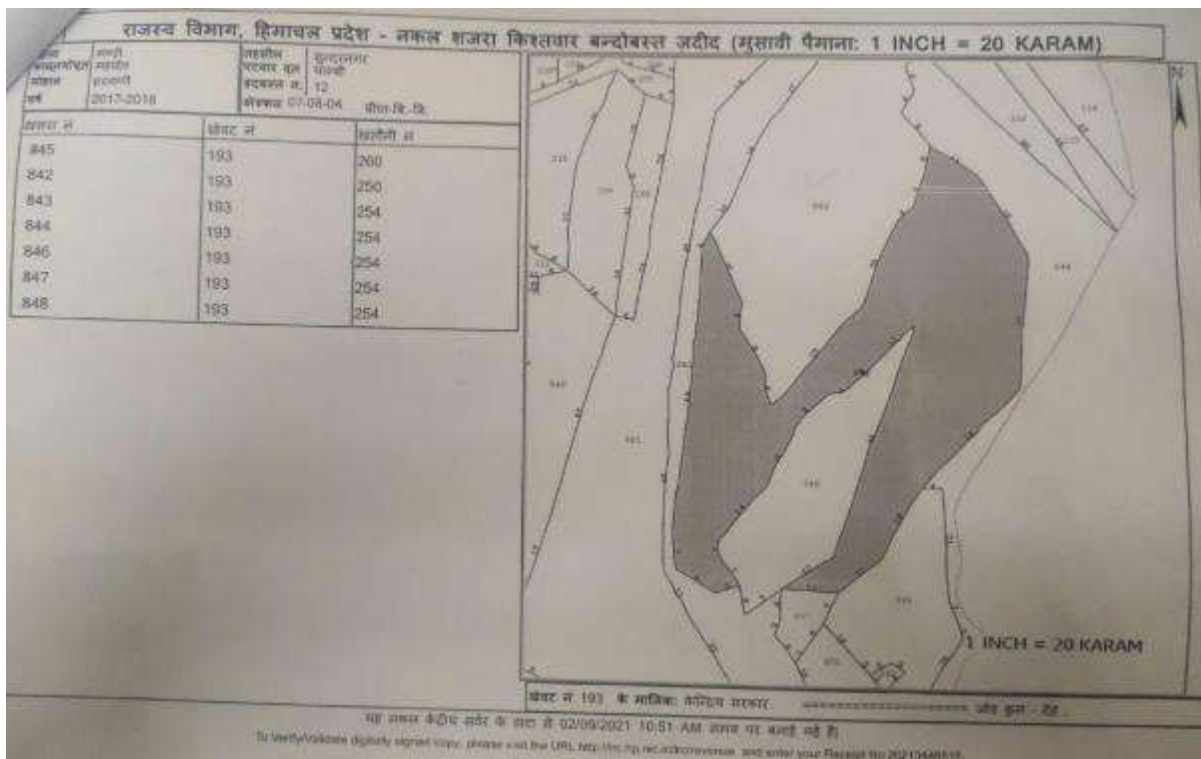
Khtauni Number	Name Sinus and Ehal	Name and Digr Number Khsra Hal basayalaapbasi	Rakba Har khet and Mizan Mai kismArajimatrikikaiyo me	Part or Measure hakiyat and tarikabaj	Kafiyat
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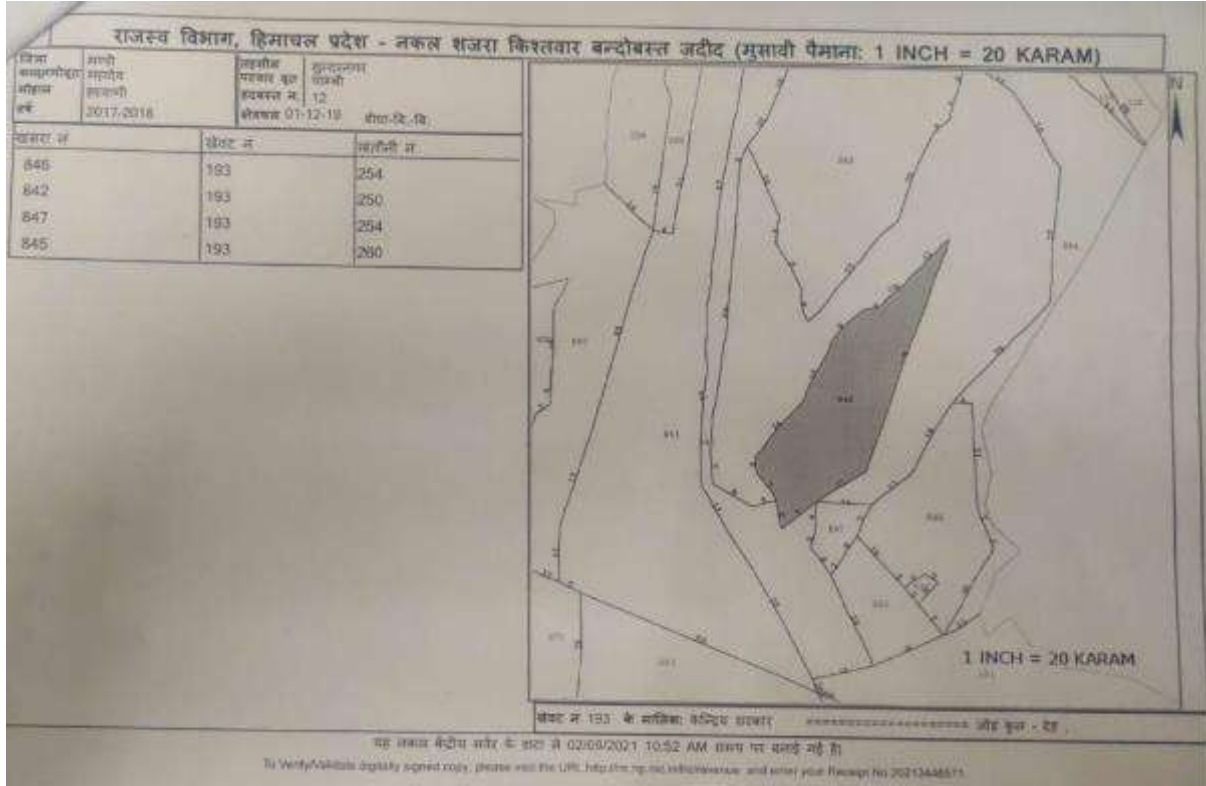
(iii) Google Earth Map



(D) Grid MS5- Proposed WTP and Pump House at Roa near Canal

(i) Khasra Map





Revenue Department, Himachal Pradesh – NaklSajraKistwarBandobastJadid (MusawiPaimana: 1 inch = 20 inch)
 District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
 Mohalla: HarwaniHadbast No. 12 Date: 2017- 2018
 Area 07.08.04

Khsra No.	Khewat No.	Khatauni No.
845	193	260
842	193	250
843	193	254
844	193	254
846	193	254
847	193	254
848	193	254

Revenue Department, Himachal Pradesh – NaklSajraKistwarBandobastJadid (MusawiPaimana: 1 inch = 20 inch)
 District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
 Mohalla: HarwaniHadbast No. 12 Date: 2017- 2018
 Area 01.12.19

Khsra No.	Khewat No.	Khatauni No.
846	193	254
842	193	250
847	193	254
845	193	260

(ii) Revenue Records

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Director Land Records
Date 02/09/2021
10:51:59

राजस्व विभाग, हिमाचल प्रदेश - नकल जमाबंदी

विभाग: सपली
सहायक: इलाहाबाद
सकल नं.: 12
वर्ष: 2017-2018

सीर नं: 20213446515
महल नं: सपली
सबका ईलाका: सपली-वि-वि

चौक नं. (सबकासबका): 103/100
सबका सपली का जपका सबका नं.सबकासबका: सपली सपली नं. (1)
सुअकासबका नं. सपली सुअकासबका नं. इलाका: 174.29 सपली 04.21 इलाका 80.08
सबका सपली नं. सपली सपली नं. सपली

सपली नं.	सबका सपली नं. सपली	सबका सपली नं. सपली सपली सपली सपली	सबका सपली नं. सपली सपली सपली सपली सपली सपली सपली सपली	सपली नं. सपली सपली सपली सपली सपली सपली सपली सपली
260 सित	सपली सपली सपली सपली सपली सपली सपली सपली	845	07-08-04 सपली सपली	सपली नं. सपली सपली सपली सपली सपली सपली सपली
262	सपली सपली सपली सपली सपली सपली सपली सपली			

Handwritten signature and date: 2/9/2021

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Director Land Records
Date 02/09/2021
10:52:51

राजस्व विभाग, हिमाचल प्रदेश - नकल जमाबंदी

विभाग: सपली
सहायक: इलाहाबाद
सकल नं.: 12
वर्ष: 2017-2018

सीर नं: 20213446571
महल नं: सपली
सबका ईलाका: सपली-वि-वि

चौक नं. (सबकासबका): 103/100
सबका सपली का जपका सबका नं.सबकासबका: सपली सपली नं. (1)
सुअकासबका नं. सपली सुअकासबका नं. इलाका: 174.29 सपली 04.21 इलाका 80.08
सबका सपली नं. सपली सपली नं. सपली

सपली नं.	सबका सपली नं. सपली	सबका सपली नं. सपली सपली सपली सपली	सबका सपली नं. सपली सपली सपली सपली सपली सपली सपली सपली	सपली नं. सपली सपली सपली सपली सपली सपली सपली सपली
258 सित	सपली सपली सपली सपली सपली सपली सपली सपली	840	01-12-19 सपली सपली	सपली नं. सपली सपली सपली सपली सपली सपली सपली
256	सपली सपली सपली सपली सपली सपली सपली सपली			

Handwritten signature and date: 2/9/2021

Revenue Department, Himachal Pradesh – Copy Jamabandi

District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: HarwaniHadbast No. 12 Date: 2017- 2018

Khewat No. (Hal/ Sabka) : 193/190

Name patti or Tarf Name Numberdar: BashrahKhewat No. (1)

Mutabla and sarhmuabla and: 174.29 Mal 94.21 sawai 80.08

Name Owner and ahwal: Government of Himachal Pradesh..... Jod Kul Deh

Khtauni Number	Name Sinus and Ehal	Name and Digr Number Khsra Hal basayalaapbasi	Rakba Har khet and Mizan Mai kismArajimatrikikaiyo me	Part or Measure hakiyat and tarikabaj	Kafiyat
260 Mean 262		845	07-08-04	Khewat Number 1	

Revenue Department, Himachal Pradesh – Copy Jamabandi

District: Mandi Tehsil: Sundernagar Kanungo: Mahadev
Mohalla: HarwaniHadbast No. 12 Date: 2017- 2018

Khewat No. (Hal/ Sabka) : 193/190

Name patti or Tarf Name Numberdar: BashrahKhewat No. (1)

Mutabla and sarhmuabla and: 174.29 Mal 94.21 sawai 80.08

Name Owner and ahwal: Government of Himachal Pradesh..... Jod Kul Deh

Khtauni Number	Name Sinus and Ehal	Name and Digr Number Khsra Hal basayalaapbasi	Rakba Har khet and Mizan Mai kismArajimatrikikaiyo me	Part or Measure hakiyat and tarikabaj	Kafiyat
254 Mean 256		846	01-12-19	Khewat Number 1	

(iii) Google Earth Map



(E) Grid MS6- Proposed WTP at Sadiyar Nallah

(i) Khasra Map

(ii) Revenue Records

(iii) Google Earth Map



(F) Grid MS6- Proposed WTP at Nasrar Nallah

- (i) Khasra Map
- (ii) Revenue Records
- (iii) Google Earth Map



(G) Grid MS6- Proposed WTP at Khola Nallah

- (i) Khasra Map
- (ii) Revenue Records-
- (iii) Google Earth Map



(H) Grid MS6- Proposed WTP at BithariKhad

- (i) Khasra Map
- (ii) Revenue Records
- (iii) Google Earth Map



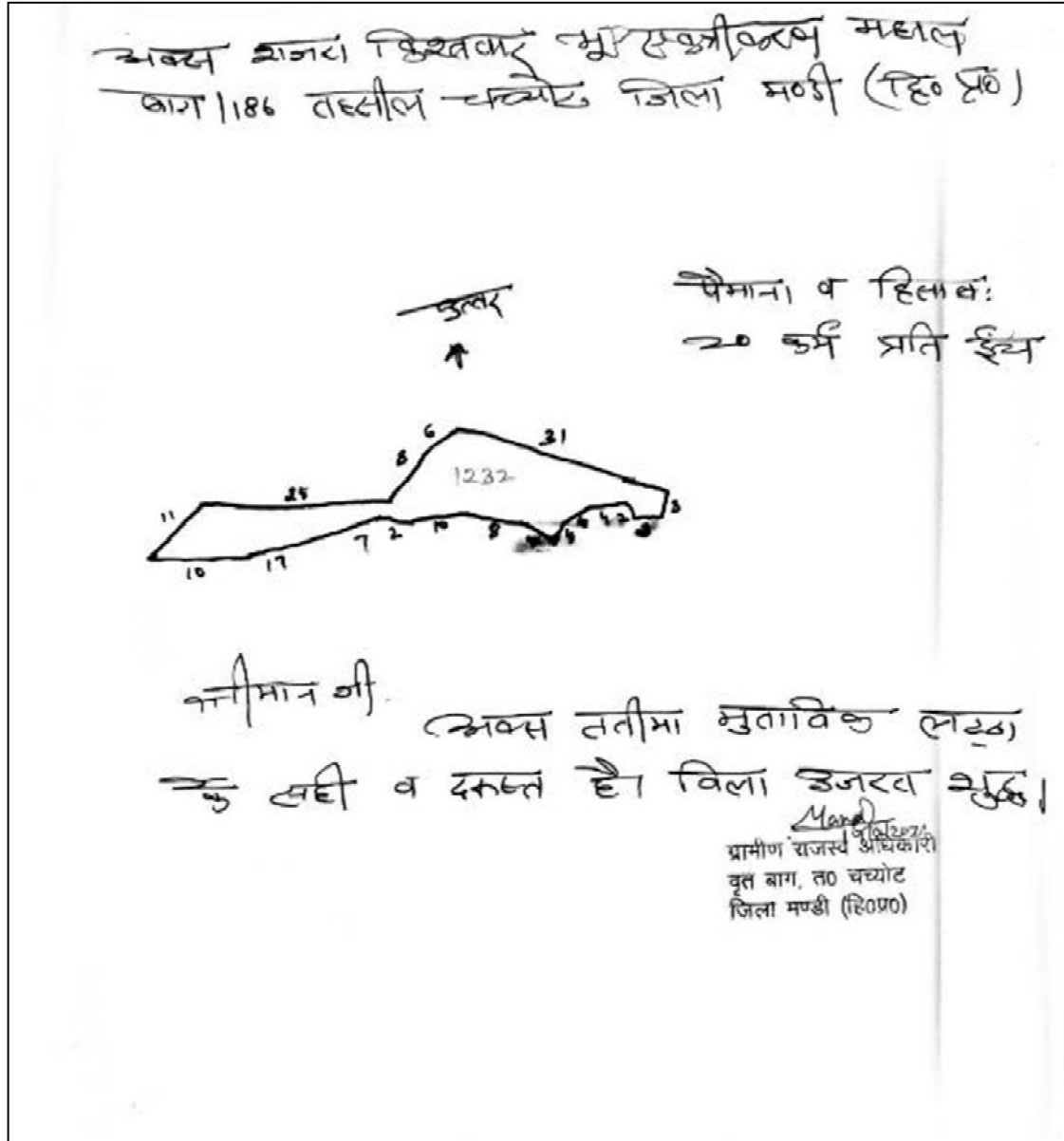
(I) Grid MS6- Proposed WTP at Sans

- (i) Khasra Map
- (ii) Revenue Records
- (iii) Google Earth Map



(J) Grid MS8 and MS9- Proposed WTP and Pump House at Sans

(i) Khasra Map



(ii) Revenue Records

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Director Land Records
Date: 13/09/2021
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राजस्व विभाग, हिमाचल प्रदेश - नकल जमाबंदी

राज्य संख्या: 20213729139

जिला: मन्थली तहसील: चरकोट कस्बा/पोस्ट: धारा

मंडला: धारा इकाई नं.: 188 मास: 2017-2018

पट्टा नं.: 258 (हाथ/कायदा) : 258 (231.8/245)

पट्टा नं. का तरह मस मास सम्बन्धित : कहरा टोप नं. (1)

मुताबिका व धारा मुताबिका व इकाई : -0.22 मास -0.12 ल्याई -0.10 कपने बट्टा -5.38 मास -2.01 ल्याई -2.47 नगरवती बट्टा 5.16 मास 2.79 ल्याई 2.37

सम आर्थिक व एकात्म : हिमाचल प्रदेश सरकार

जमीन नं. मस करिताकरा व मुताबिका मस पाह व रीत मन्थली धारा इकाई रकम हर क्षेत्र व विवरण मस मन्थली इकाई मस मन्थली इकाई मस मन्थली इकाई

जमीन जो मुताबिका अथवा फलतः व मस मन्थली इकाई मस मन्थली इकाई

328.000 मस मन्थली इकाई मस मन्थली इकाई

321 1232 01-05-16 मस मन्थली इकाई मस मन्थली इकाई

म.सं. म.सं.
005 005
मस मन्थली इकाई मस मन्थली इकाई

(iii) Google Earth Map



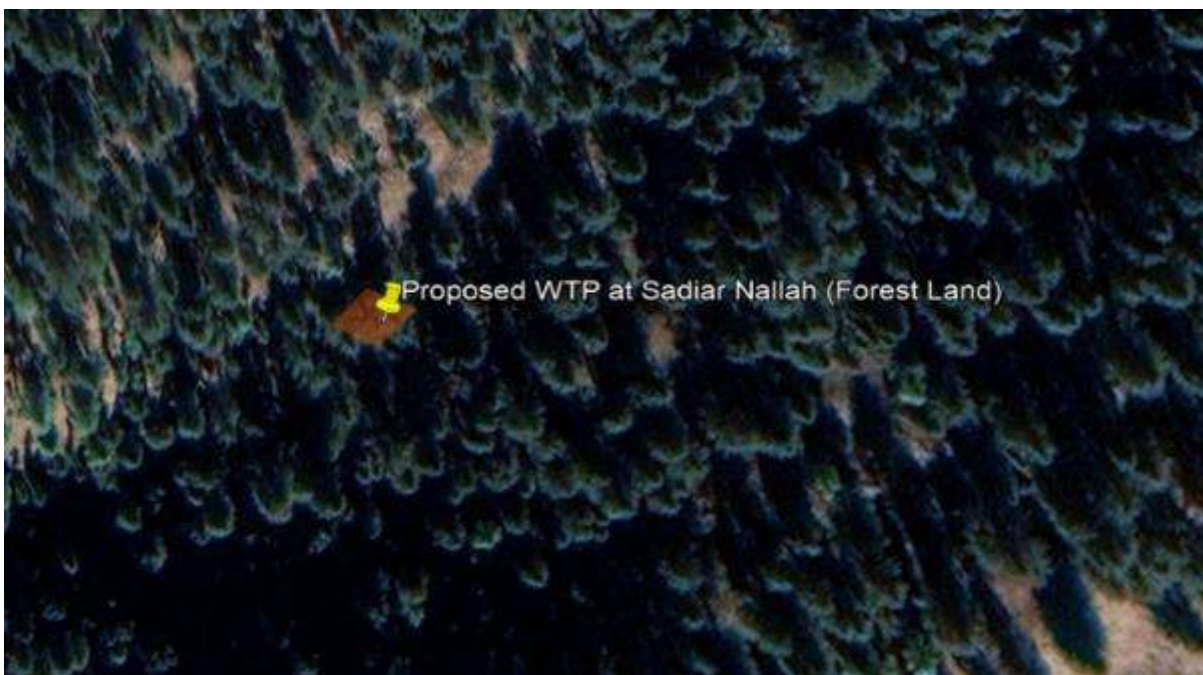
(K) Grid MS15- Proposed WTP at Gowata Nallah

- (i) Khasra Map
- (ii) Revenue Records
- (iii) Google Earth Map



(L) Grid MS15- Proposed WTP at Sadiar Nallah

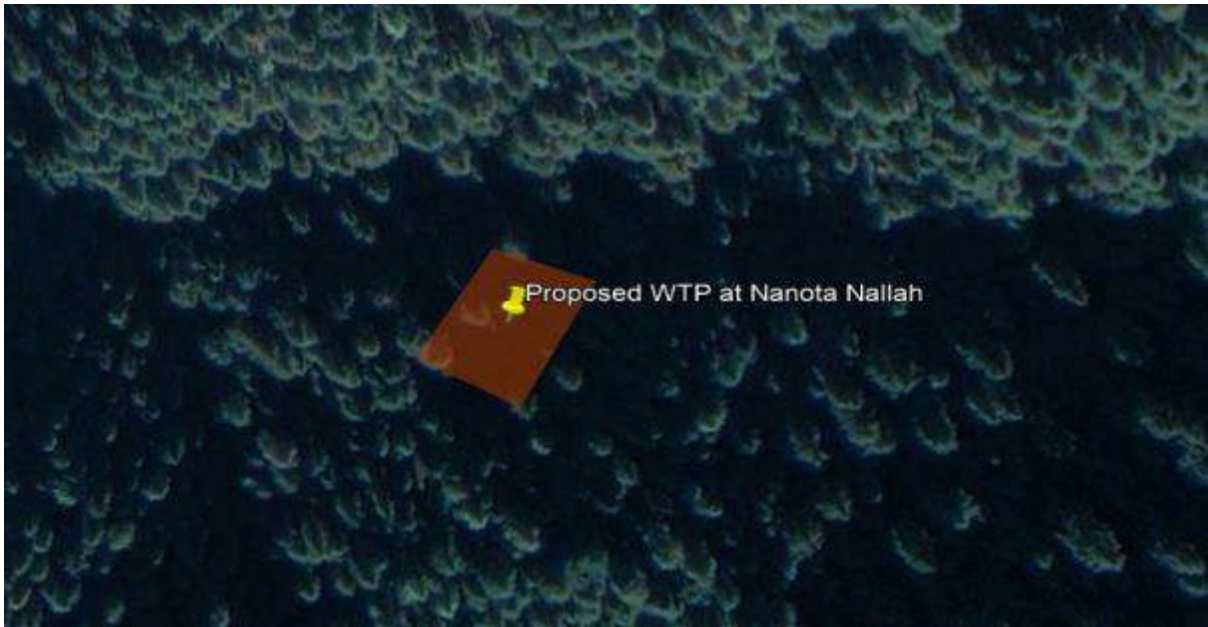
- (i) Khasra Map
- (ii) Revenue Records
- (iii) Google Earth Map



(M) Grid MS15- Proposed WTP at Nanota Nallah

- (i) Khasra Map

- (ii) Revenue Records
- (iii) Google Earth Map



(N) Grid MS15- Proposed WTP at Chuhur Nallah

- (i) Khasra Map
- (ii) Revenue Records
- (iii) Google Earth Map

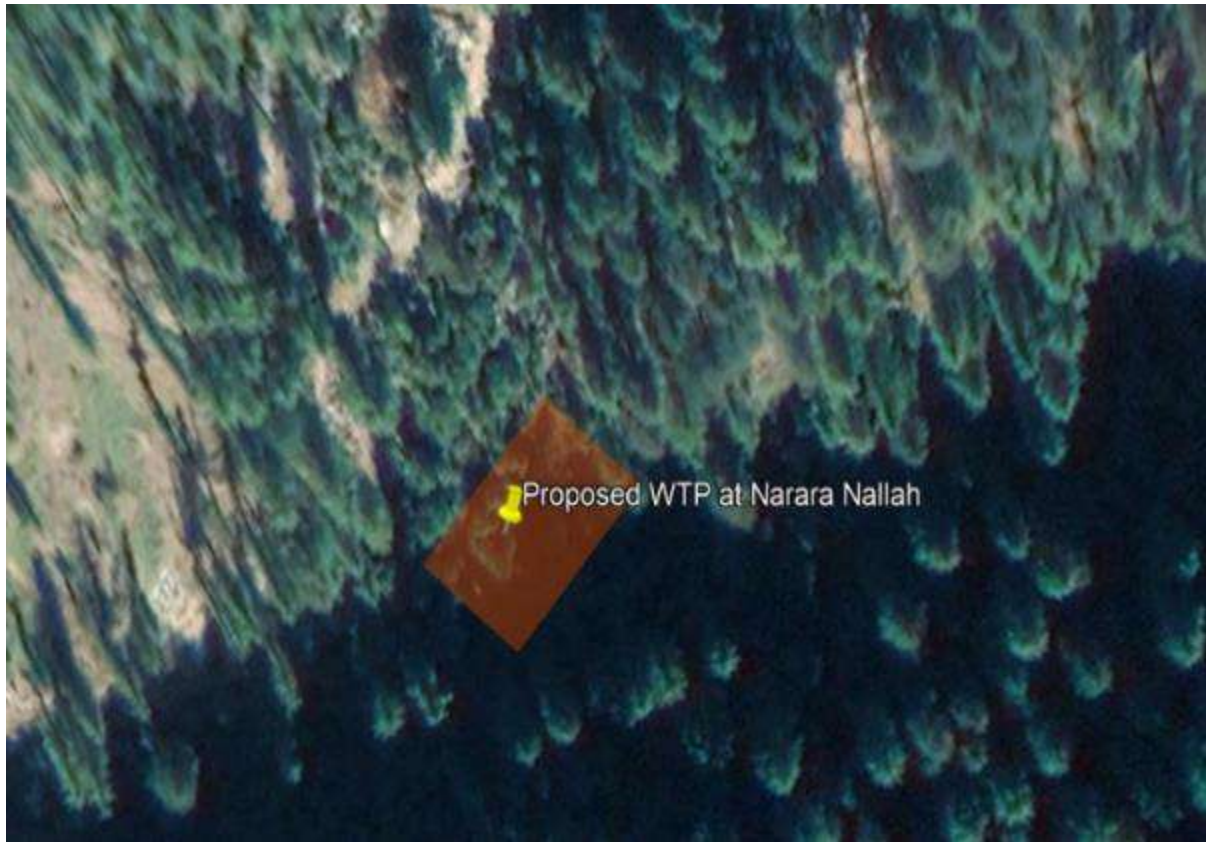


(O) Grid MS15- Proposed WTP at Narara Nallah

(i) Khasra Map

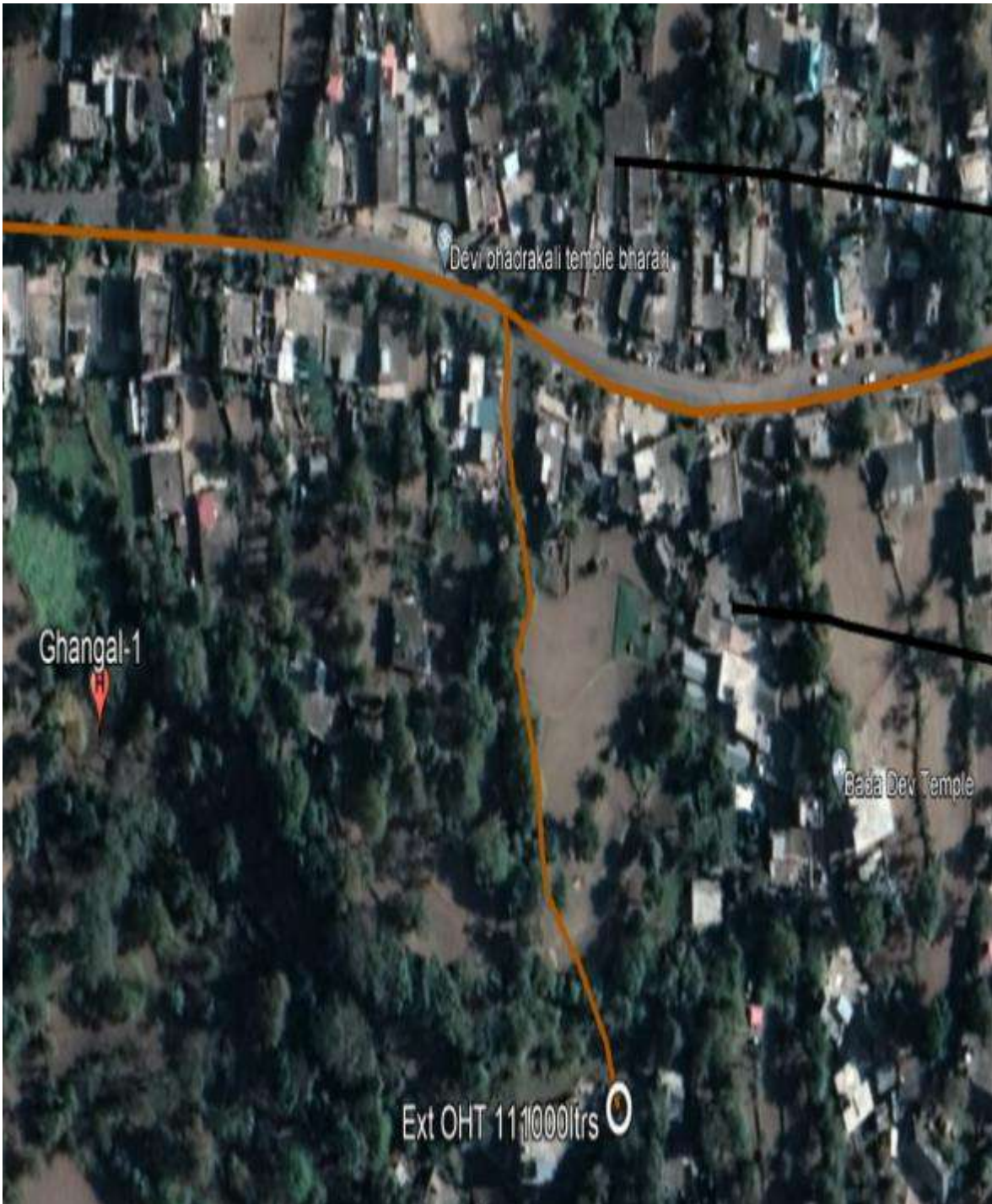
(ii) Revenue Records

(iii) Google Earth Map



Appendix 7: Sample Survey: Google Earth Maps of Indicative proposed pipe alignment in Major Roads- SH/NH

MS 5: Proposed Distribution Network on State Highway 13 near Devi Bhadrakali temple (40-80 mm)



MS 1: Proposed Distribution Network on National Highway 3 near Himachal Pradesh Gramin Bank Bo-Talyahar (40-65mm)



MS-15: Proposed Gravity Main on State Highway 13 near SR Juanga (80-150mm)



MS-1: Proposed Gravity Main and distribution Network on State Highway 26



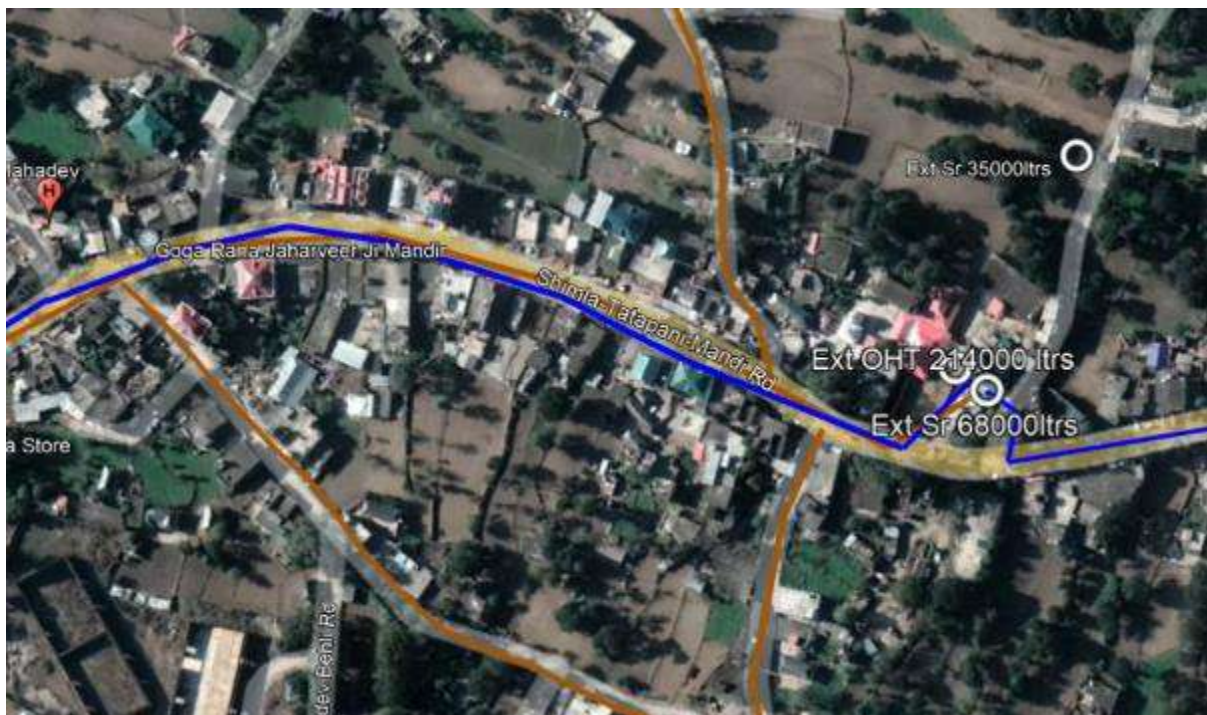
MS-2: Proposed distribution Network on State Highway 26



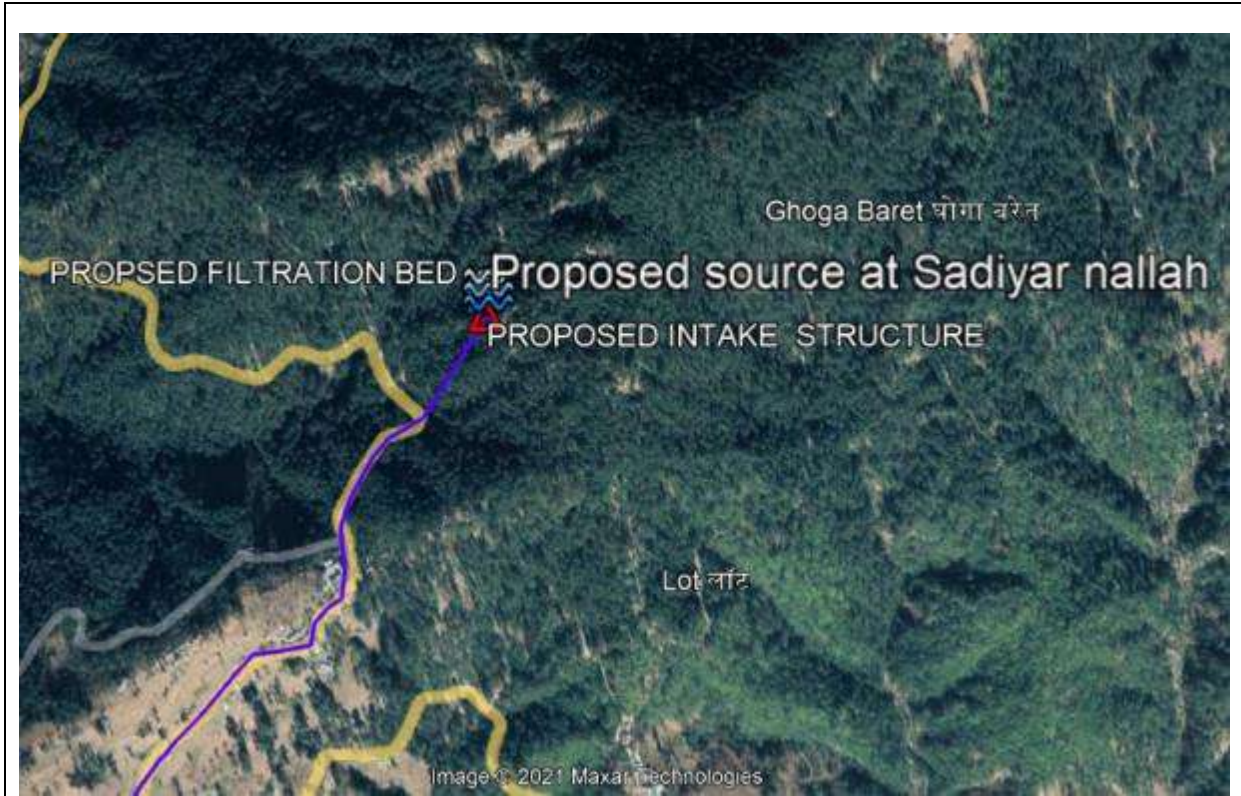
MS-5: Proposed Rising Main, Gravity Main and Distribution Network on State Highway 13



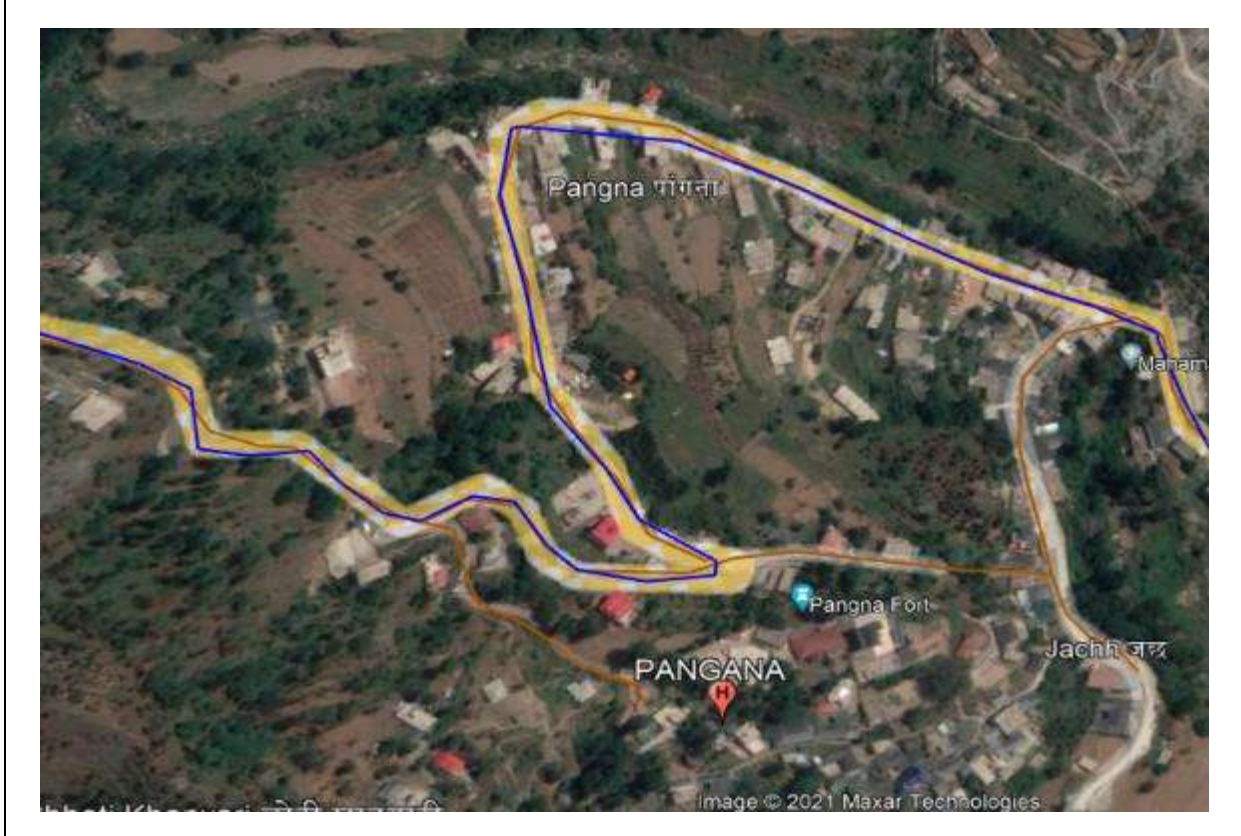
MS-5: Proposed Gravity Main and Distribution Network on State Highway 13 and district roads/ internal village roads



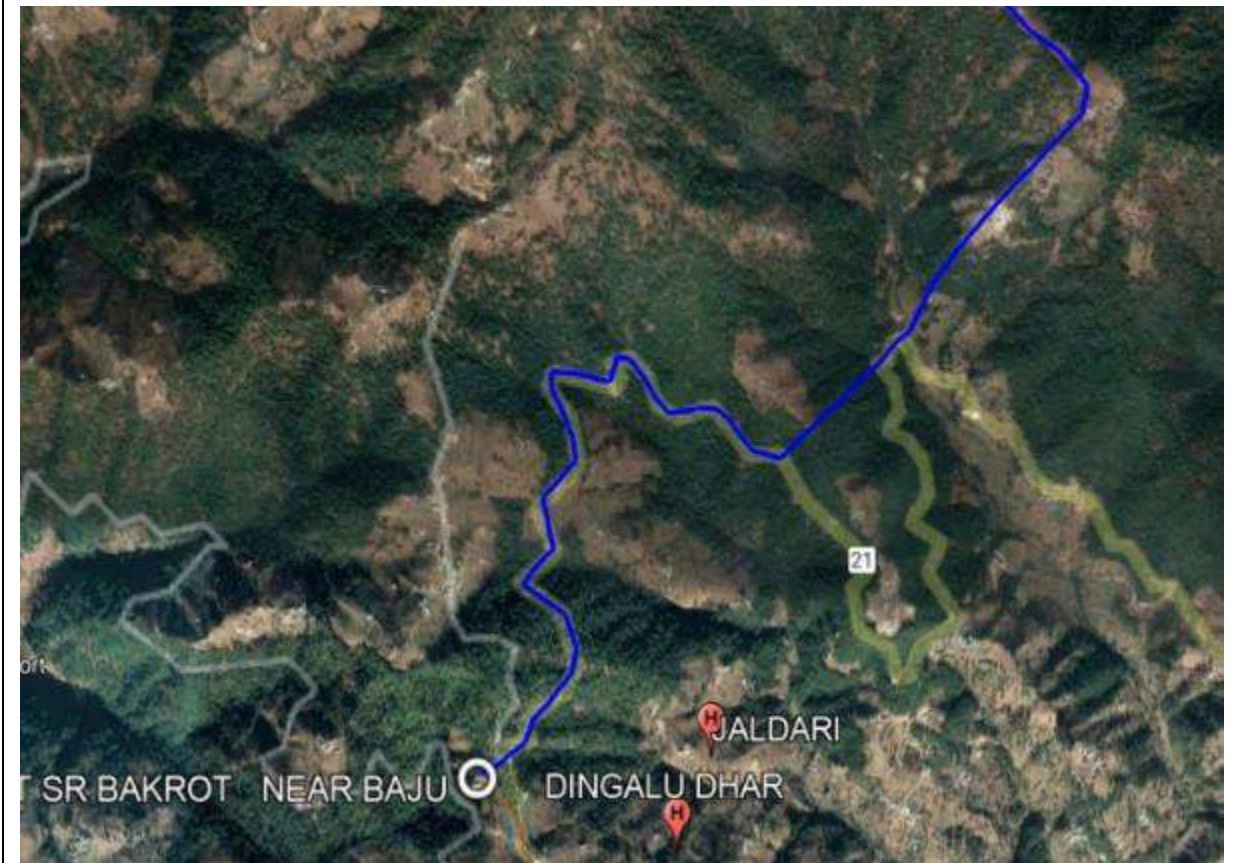
MS-6: Proposed Gravity Main on State Highway 13 from source Sadiyar Nallah



MS-6: Proposed Gravity Main and Distribution on State Highway 13 from source Sadiyar Nallah



MS-6: Proposed Gravity Main from source Nasrar Nallah



Appendix 8: Sample Survey: Analysis of Indicative Pipeline Alignments at Various Locations in MZ02

Grid MS-1: Rising Main alignment



Grid MS-2: Alignment of Rising main from PH through Kaccha path to Main Road.



Grid MS 5: Indicative Alignment of Distribution Network through Kaccha pathways and Junctions



Grid MS 6: Alignment of Gravity Main from Source along with forest trails/ water stream



Grid MS5: Indicative Alignment of Rising Main crossing canal via bridge from WTP



Grid MS 1: Indicative Water Distribution Network through internal village roads



MS 6: Indicative Distribution Network through internal village roads at various junction points



Appendix 9: Sample Survey: Market Place Analysis with Google Earth Images and Site Photographs

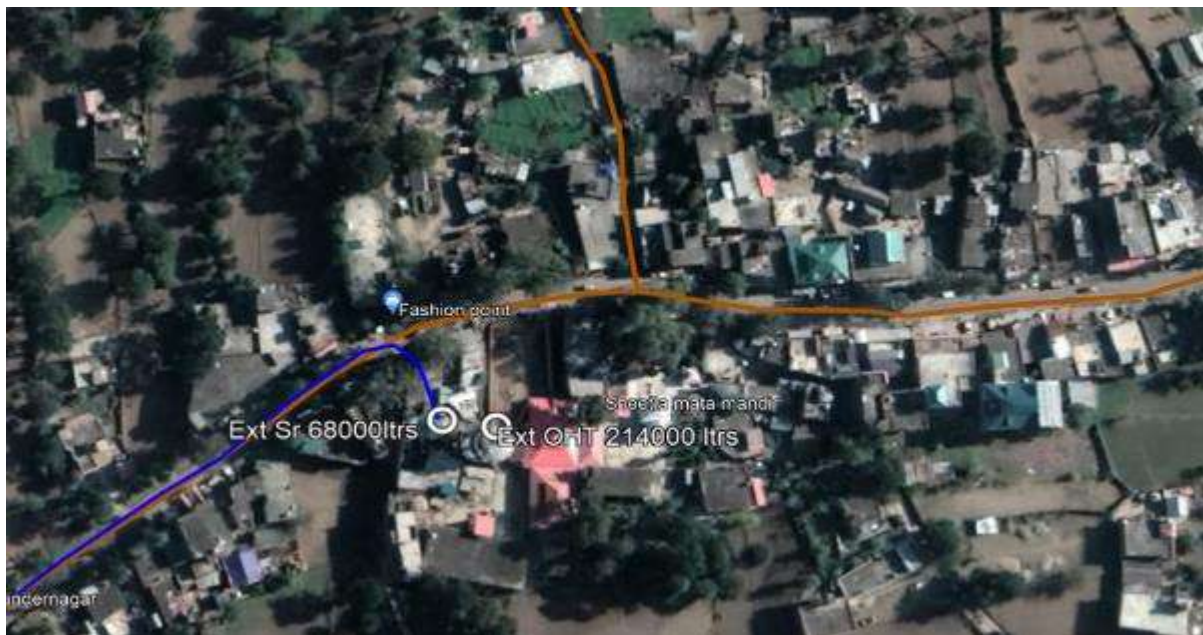
1. MS-5: Distribution Network at Market Place on SH 13 near Devi Bhadrakali Temple (40-65 mm)







2. MS-5: Gravity Main (80-100 mm) and Distribution Network at Market Place on Shimla-Tatapani Mandi-Road near Shiv Mahadev Temple (50 mm)





3. MS-1: Distribution Network at Market Place on SH 3 near Himachal Pradesh Gramin Bank, Bo-Talyahar (40-50mm)







4. MS-2: Distribution Network at Market Place in Village Kathlag (50 mm)







5. MS-2: Distribution Network at Market Place, Rewalsar Road, Randhara (50 mm)







Appendix 10: Additional Information on Water sources, Intake arrangements and WTPs.

Grid wise details of sources proposed water demand and discharge availability is given in Table 10-1 and discussed below:

GRID MS 1 (Source: Rail and winch arrangement on Beas River near Raghunath ka Padhar). Proposed source the Beas River has potential yield of 1112 LPS during lean periods. Rail and winch arrangement is proposed to abstract water from Beas River. The water demand of the command area to be catered is 9.94 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042, Less than 1% of the water (0.9%) from Beas River will be abstracted which will not impact any further downstream uses therefore no further conflict will arise.

GRID MS 2 (Source: GhambharKhad). GhambharKhad has lean period discharge of 23 LPS. The water demand of the command area for year 2042 is 2.95 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 (12.82% of water will be abstracted). After the proposed location of source Ghambhar Khad merges with SuketiKhad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source,

GRID MS 3 (Source: Rail and winch arrangement on Beas River near village Aut) Proposed source Beas River at the proposed location has potential yield of 1312 LPS during lean periods. Rail and winch arrangement is proposed to abstract water from Beas River. The water demand of the command area to be catered is 4.52 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 and less than 0.35% of the water from Beas River will be abstracted which will not impact any further downstream uses. Hence no further conflict will arise.

GRID MS 5 (Source: Bhakra Beas Management Board (BBMB) Canal at Rao). Proposed source BBMB canal at Rao khad has potential yield of 2,54,850 LPS during lean periods. A gravity main is proposed to abstract water from source. The water demand of the command area to be catered is 21.67 LPS, the source has enough discharge to meet the water demand of the ultimate design year (2042,) and 0.008% of the water from canal will be abstracted which will not impact any further downstream uses, therefore no further conflict will arise.

GRID MS 6. Total 5 Nallah sources will serve the entire project area comprising of 6 water supply schemes and has a combined total flow of 77.70 lps. The total water demand for all schemes for ultimate design period (2042) is 4.81 lps (6.20% of water will be abstracted) and hence it can be stated that the water supply sources are sustainable for the project. Duration

Source: Proposed Head weir on Sadiyar Nallah. Proposed source Sadiyar Nallah has potential yield of 5.2 LPS during lean periods. Head weir with rectangular channel with sump is proposed to increase the ponding in the source. The water demand of the command area to be catered is 1.75 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042, After the proposed location of source Sadiyar Nallah merges with Another Khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source,

Source: Proposed Head weir on Khola Nallah. Proposed source Khola Nallah has potential yield of 7 LPS during lean periods. Head weir with rectangular channel with sump is proposed to

increase the ponding in the source. The water demand of the command area to be catered is 0.63 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042, After the proposed location of source Khola Nallah merges with Another Khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source,

Source: Proposed Head weir on Sans Nallah. Proposed source Sans Nallah has potential yield of 5.5 LPS during lean periods. Head weir with rectangular channel with sump is proposed to increase the ponding in the source. The water demand of the command area to be catered is 0.31 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042, After the proposed location of source Sans Nallah merges with Another Khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source,

Source: Proposed Head weir on Nasrar Nallah. Proposed source Nasrar Nallah has potential yield of 40 LPS during lean periods. Head weir with rectangular channel with sump is proposed to increase the ponding in the source. The water demand of the command area to be catered is 0.65 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042, After the proposed location of source Nasrar Nallah merges with Another Khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source.

Source: Proposed Head weir on BithariKhad. Proposed source BithariKhad has potential yield of 20 LPS during lean periods. BithariKhad source is common source for two schemes namely WSS PangnaNagrown and WSS MashogKotlu Head weir with rectangular channel with sump is proposed to increase the ponding in the source. The water demand of the command area to be catered is 1.47 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042, After the proposed location of source BithariKhad merges with Another Khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source.

GRID MS 8 and MS 9 (Source: Proposed Head weir on SamnosKhad). A common source is proposed for the Grid MS 8 and MS 9 i.e., proposed head weir and rectangular channel with sump on SamnosKhad. SamnosKhad has a potential yield of 110 LPS during lean periods. The combined water demand of the command area to be catered is 12.92 lps and 11.75% of the water will be abstracted). The source has enough discharge to meet the water demand of the ultimate design year i.e. 2042, after the abstraction of water at proposed location on SamnosKhad many small khads and Nallahs merges with Samnos Khad and the abstraction will not affect the downstream abstraction, therefore no further conflict will arise. Water quality test reports recommends that the available water is fit for the human beings and full fill the standards mentioned in BIS 10500

GRID MS 15 Total five numbers Nallah sources are proposed to feed five water schemes under this Grid and lean period discharge for all nallah sources is enough to cater the future water demand All proposed sources have enough discharge (36 lps) to fulfil the ultimate water demand (3.42 lps) of the project area till 2042. and 9.50 % of the water will be abstracted. Therefore, there will be no water uses conflict at downstream of the source.

Source: Proposed Head weir on Sadair Nallah. . Proposed source Sadair Nallah has potential yield of 4.5 LPS during lean periods. Head weir with rectangular channel with sump is proposed to increase the ponding in the source. The water demand of the command area to be catered is

0.88 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042, After the proposed location of source Sadair Nallah merges with another khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source,

Source: Proposed Head weir on Chuhar Nallah Proposed source Chuhar Nallah has potential yield of 10 LPS during lean periods. Head weir with rectangular channel with sump is proposed to increase the ponding in the source. The water demand of the command area to be catered is 1.12 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042, After the proposed location of source Chuhar Nallah merges with another khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source,

Source: Proposed Head weir on Narara Nallah. Proposed source Narara Nallah has potential yield of 7.5 LPS during lean periods. Head weir with rectangular channel with sump is proposed to increase the ponding in the source. The water demand of the command area to be catered is 0.41 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e., 2042, After the proposed location of source Narara Nallah merges with another khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source,

Source: Proposed Head weir on Gowata Nallah. Proposed source Gowata Nallah has potential yield of 4.5 LPS during lean periods. Head weir with rectangular channel with sump is proposed to increase the ponding in the source. The water demand of the command area to be catered is 0.4 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e. 2042, After the proposed location of source Gowata Nallah merges with another khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source, .

Source: Proposed Head weir on Nanota Nallah. Proposed source Nanota Nallah has potential yield of 9.5 LPS during lean periods. Head weir with rectangular channel with sump is proposed to increase the ponding in the source. The water demand of the command area to be catered is 0.61 LPS, the source has enough discharge to meet the water demand of the ultimate design year i.e. 2042, After the proposed location of source Nanota nallah merges with another khad, and there is no further abstraction of water therefore there will be no water conflict at downstream of the source,

All sources are duly selected keeping in mind the downstream conditions and water requirement. Upto Two kilometres downstream of the sources, it was observed that there will not be any significant water reduction that will impact the users downstream. Sources like Beas River and others have huge water discharge and in this package, 1, less than 1% of that discharge is extracting to serve a particular command area or scheme. Khads are tributaries of rivers and similarly nallahs are tributaries of Khads. Nallahs are small water tributaries that are both rain and snow fed. They are used to feed the water demand of a particular area and hence, do not impact the downstream users as they will be having a separate nallah source to feed them. The flow measurement certificates of proposed sources measured by JSV and raw water quality reports are enclosed as Appendix 8 and Appendix 9 respectively.

Thus, as presented above, in terms of water availability and quality of water, selected sources are adequate and suitable to meet the project water demand, and there are unlikely to be any issues related source sustainability during the project life cycle. Rivers are perennial with seasonal

variations. Lean flow is observed during November/December (snow fed) and May/June (rain fed). High discharge is observed in August/September months.

Table 10-1: Details of Sources, Yield and Water Demand for the Year 2042

Grid	Source Type	Yield (LPS)	Water Demand (LPS) for 2042	% of Water Abstraction
MS1	Jack Well on Beas River near Raghunath ka Padhar	20	9.94	0.893885
MS2	GhambarKhad- Existing Intake structure to be used	23	2.95	12.82609
MS3	Rail and winch arrangement on Beas River near village Aut	1312	4.52	0.344512
MS5	BBMB Canal at Rao	254850	21.67	0.008503
MS6	Proposed Head weir on Sadiyar Nallah	5.2	1.75	33.65385
	Proposed Head weir on Khola Nallah	7	0.63	9
	Proposed Head weir on Sans Nallah	5.5	0.31	5.636364
	Proposed Head weir on Nasrar Nallah	40	0.65	1.625
	Proposed Head weir on BithariKhad	20	1.47	7.35
		77.7	4.81	6.190476
MS8&9	Proposed Head weir on Jiuni Khad	110	12.92	11.74545
MS15	Proposed Head weir on Sadair Nallah	4.5	0.88	19.55556
	Proposed Head weir on Chuhar Nallah	10	1.12	11.2
	Proposed Head weir on Narara Nallah	7.5	0.41	5.466667
	Proposed Head weir on Gowata Nallah	4.5	0.4	8.888889
	Proposed Head weir on Nanota Nallah	9.5	0.61	6.421053
		36	3.42	9.50
	Total	257520.7	60.23	0.024

Source: Discharge certificates, Detailed Project Report 2020-21

Water bodies present in the area are Satluj river, Beas River, Bakhalkhad, ThunagKhad, Soul khad, SuketiKhad, BBMB canal, SamnosKhad, JuhungiKhad, PangnaKhad and other small khads and nallahs. Maps showing these river courses, tributaries, and proposed intake/head weir location etc are given in Figure 21.

Water sources proposed in MZ-02 are Beas River, Tributary of SuketiKhad i.e., GambharKhad, BBMB Canal, small tributaries of Juhugni and PangnaKhad i.e., Sadiyar nallah, Khola Nallah, Sans nallah, Nasrar nallah, Bitharikhad, SamnosKhad, Sadair Nallah, Gowata Nallah, Chuhar Nallah, Narara nallah and Nanonta Nallah.

Beas River: Beas River is a snow and rain fed perennial river of length 470 km. Beas River originates from Beas kund near Manali and merges into river Satluj near Kapurthala. Major tributaries of Beas are Tirthan river, Parvati River, Neugalkhad, Gaj Khad etc. Its catchment area consists of parts of district Kullu, Mandi, Kangra in Himachal Pradesh and Gurdaspur, Hoshiarpur and Kapurthala in Punjab. Pong dam of height 133m is built across river Beas near Sansarpur having storage of 8570-million-meter cube.

Satluj River: Satluj river is snow and rainfed river of length ~1448 km, River Satluj rises from beyond Indian borders in the Southern slopes of the Kailash mountain near Mansarover lake from Rakas lake and merges with river Chenab near Multan in Pakistan. Major tributaries of Satluj river are Beas River, Bakhalkhad, JwalaKhad, ThunagKhad and Soul Khad and its catchment area comprises of Rakshastal lake and Parts of district Shimla, Mandi, Kullu, Bilaspur in Himachal Pradesh. Bhakra Nangal Dam of height 226m is a major dam built across the river having storage of capacity 9340 million-meter cube.

Bakhalkhad: Bakhalkhad is a medium khad of length ~60 km. which has catchment area of parts of Panchayats Janjehli, Majhwal, Thach, Thunag, Chiuni, Shikari Devi etc., it is snowfed perennial khad and also draws water from a number of khads and springs in the catchment area having discharge of 290 LPS in lean period measured at the location of the proposed Hear weir. Bakhalkhad merges into river Beas near Pandoh, quality of water generally potable but in monsoon water becomes turbid.

ThunagKhad: Thunagkhad is a small khad of length ~18 km. which has small catchment area of parts of Panchayat Thunag, Karwali, Bhiyand etc. it is snowfed perennial khad and also draws water from a number of small khad and springs in the catchment area having discharge of 90 LPS in lean period. Thunagkhad merges into Bakhalkhad which finally merges with river Beas, quality of water generally potable but in monsoon water becomes turbid.

Soul Khad: Soul khad is a small khad of length ~20 km. which has small catchment area of parts of Panchayat Panjog, Chowki, Rohanda, Nawal etc., it is snowfed perennial khad and also draws water from a number of small Khads, and springs in the catchment area having discharge of 80 LPS in lean period. Soul khad merges with river Satluj near Kangoo, quality of water generally potable but in monsoon water becomes turbid.

BBMB canal: BBMB Canal is a 12 km canal which is used for power generation. It draws water from small khads and springs prior to the entry of canal catchment area of canal is parts of Baggi, Tarrur etc. AS per the water quality report received Water is potable.

SamnosKhad: Samnoskhad has a length of ~43 km. which has catchment area of parts of Panchayat KandhiKamroonag, Dhisti, Tunna, Shalla, Naun, Balhri, Lot, etc., it is snowfed perennial khad and also draws water from a number of small Khads, and springs in the catchment

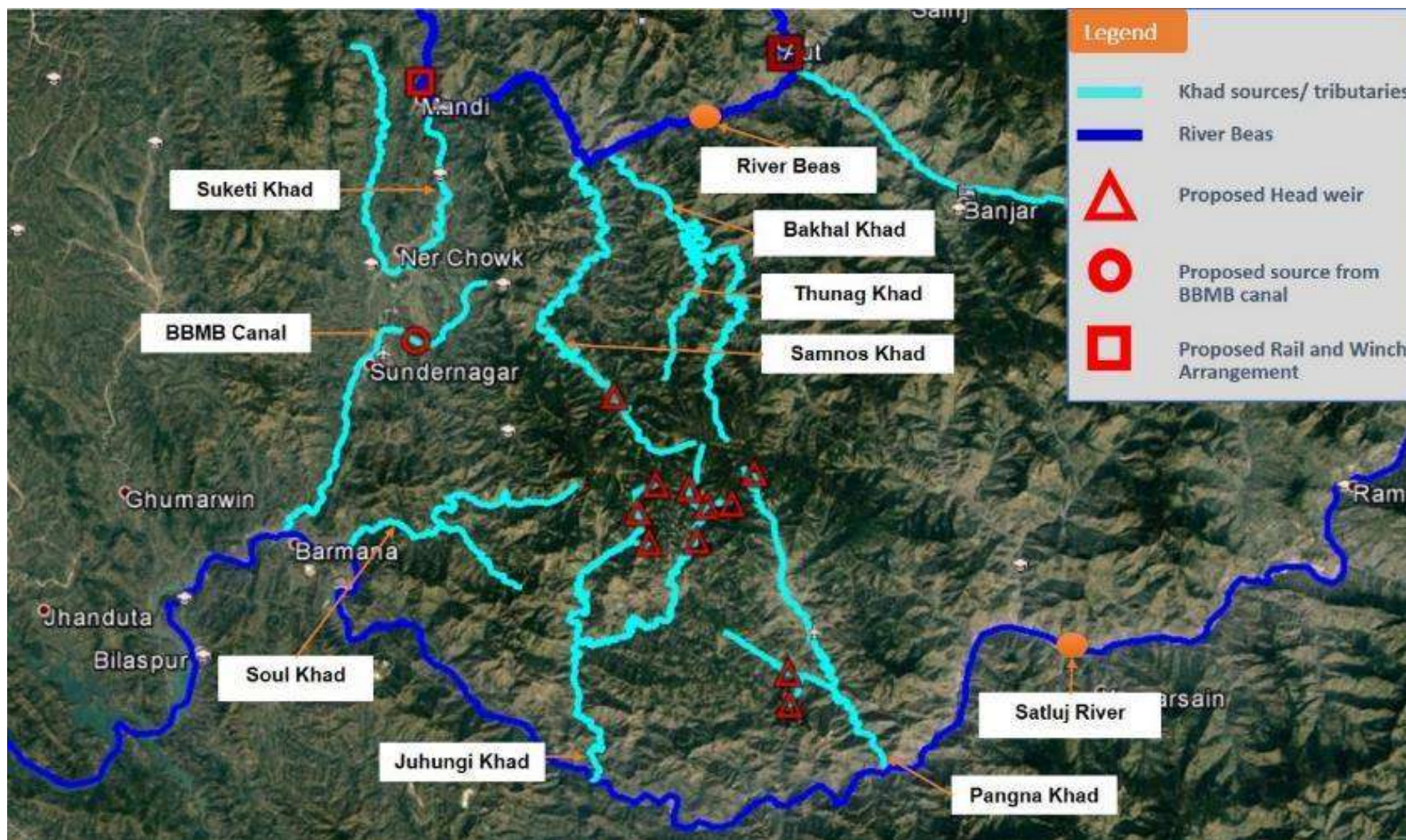
area having discharge of 110 LPS in lean period. Samnoskhad merges with river Beas near Pandoh, quality of water generally potable but in monsoon water becomes turbid.

SuketiKhad: Suketikhad has a length of ~25 km. which has catchment area of parts of District Mandi etc., it is snowfed perennial khad and also draws water from a number of small Khads, and springs in the catchment area. Suketikhad merges with river Beas near Mandi quality of water generally potable but in monsoon water becomes turbid.

PangnaKhad: Suketikhad has a length of ~20 km. which has catchment area of parts of Panchayat Bahi, Sarahi, Mashogal, Pangna, KandhiSapnot, Bakhroth, Sandal.etc., it is snowfed perennial khad and also draws water from a number of small Khads, and springs in the catchment area. Pangnakhad merges with river Satluj near Parlog quality of water generally potable but in monsoon water becomes turbid

JuhungiKhad: Suketikhad has a length of ~33 km. which has catchment area of parts of District Mandi etc., it is snowfed perennial khad and also draws water from a number of small Khads, and springs in the catchment area. Jujungikhad merges with river Satluj near Tatapani quality of water generally potable but in monsoon water becomes turbid.

Figure 10-1: Map showing water bodies and sources



Source: Google maps, state river maps, transect walks

Appendix 11: Consent form of Voluntary Land Donation from Land Owners for Project Components and Pipe Laying

I, _____ son/daughter of _____
am a permanent Resident of Ward no____, _____ Tehsil and District
_____ Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own land
comprising of Khasra Nos. _____ I hereby give my
consent to donate _____ m² of Land to the Jal Shakti Vibhag Himachal Pradesh for
construction of _____ component under **Renovation and Remodelling**
of Rural Water supply schemes commissioned prior 01.01.2000.

Signature of Landowner

1. _____
2. _____

Gram Pradhan

_____ Panchayat

(Sign and Stamp)

Executive Engineer

_____ Division

Jal Shakti Vibhag

(Sign & Stamp)

Appendix 12: Terms of Reference for Independent Third Party for Voluntary Land Donation/Negotiated Settlement

1. For any voluntary donation of land, an external independent entity will supervise and document the consultation process and validate the negotiated purchase/ land donation process as per legal requirement.

Terms of Reference for Independent Third-Party Witness

2. An independent third party is sought to be appointed to oversee and certify the process of negotiated purchase/ land donation. The third party shall be briefed about his/her expected role and deliverables by the PMU/PIU/PDMSC (safeguard officer/assistant safeguard officer/SSS).

3. **Eligibility.** The third party shall be a representative of the community (for example, a leader of the community with formal/legal standing, a representative of a local NGO/CBO with formal and legal standing) or an institution, without any direct interest in the negotiation process or subproject activity, who is acceptable to each of the concerned parties (PMU/PIU and concerned landowner/donor).

4. **Scope of Work.** The role of the third party shall be to ensure a fair and transparent process of negotiation/donation. The envisaged scope: of work shall entail the following:

- (i) witness and keep a record of meetings held with the concerned parties;
- (ii) ensure there is no coercion involved in the process of negotiated purchase/land donation;
- (iii) ensure that the donor(s) are not coming from vulnerable groups/poor families;
- (iv) ensure that the preferences and concerns of the land owner/donor related to access, selection of site within lands held, etc. are recorded and any stipulated conditions met;
- (v) ensure that the negotiated purchase/land donation agreement is drafted in a fair and transparent manner;
- (vi) confirm that the offered/agreed price is fair and meet the market price of the land with similar value and condition in the area;
- (vii) ensure the negotiated purchase/donation does not result any negative impacts to the third party associated with the purchase/donation activity;
- (viii) identify and recommend mitigation measures to land owner/donor/affected third party, if required;
- (ix) ensure that taxes, stamp duties and registration fees for purchased/donated land are borne by government; and
- (x) submit a report and signed certificate as witness to the purchase/ donation and transfer process.

5. **Deliverables:** The details of the meetings, socio-economic background of the land/assets owner(s) and a certificate/reports as witness to the purchase/donation process and mitigation measures to owner/donor, if any, shall be submitted by the third party to PMU/PIU and owner/donor in the local language and share with ADB for review.

Appendix 13: Sample Certification Formats

This is to certify that Mr./Mrs. XXXXXXXXXXXXXXXXXXXX, (profession, designation, address) is appointed as independent third party to certify the process of negotiated purchase/donation of plot no.....area.....owned/donated by XXXXXXXXXXXX (names of owner),

Who is a signatory to this certificate. It is also placed on record that none of the signatories to this certificate have any objection to appointment of xxx as third-party witness.

Date

Officers JSV and land donor

1. _____

2. _____

I, _____ of _____ (address) certify that I was witness to the process of negotiated purchase / land donation (details of plot _____ from XXXXXXXXXXX landowners' names). I certify that:

1. The process of purchase / donation of the said land was transparent; the landowner(s) was/were happy to sell/donate the land for the welfare of the community.
2. No coercion was used in the purchase/donation process.
3. Land transfer costs (registration fee and stamp duty) were borne by the government and not by the owner/donor.
4. All concerns expressed by the owner/donor as agreed, were addressed and no pending issues remain.
5. The following mitigation measures were identified and implemented/provided to the land owner/donor.
6. Attached are the minutes of meetings held between project proponents and the land owner/donor, which I was witness to.

Signed/ Name

Date: _____ Place: _____

Encl: Minutes of meetings held between land owner/donor and project proponents

Appendix 14: 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:	

Appendix 15: Involuntary Resettlement Checklist

Project Data		
Country/ Project No./ Project Title	a)	Himachal Pradesh Rural Drinking Water Improvement and Livelihood Project (HPRDWILP)
Subproject title	b)	Mandi Zone Package-1 (MZ-02)
Project Executing Agency	c)	Project management Unit, Jal Shakti Vibhag (JSV)
Project Implementing Agency	d)	Project Implementation Unit, Jal Shakti Vibhag (JSV)
Modality	e)	
<input type="checkbox"/> Project Loan <input type="checkbox"/> Program Loan <input type="checkbox"/> Financial Intermediary <input type="checkbox"/> General Corporate Finance <input checked="" type="checkbox"/> Sector Loan <input type="checkbox"/> MFF <input type="checkbox"/> Emergency Assistance <input type="checkbox"/> Grant <input type="checkbox"/> Other financing modalities:		
IR Impact categorization <input checked="" type="checkbox"/> New <input type="checkbox"/> Recategorization — Previous Category <input type="checkbox"/>		
<input type="checkbox"/> Category A: Significant IR impact (200+ persons (not households!) are physically displaced from residence or lose more than 10% of productive (income generating) assets)		
<input type="checkbox"/> Category B: Non-significant IR impact		
<input checked="" type="checkbox"/> Category C: No IR impact		
Prepared by:		
Social Development Specialist (Name, title, signature): xxxxxx, Date: NA		
For Project Implementing Agency (Name, title, signature): Mr. xxxxxxxxxxxxxxxxxxxx Date:		
For Project Executing Agency (Name, title, signature): Mr. xxxxxxxxxxxxxxxxxxxx Date:		

Probable Involuntary Resettlement Effects	Yes	No	Not Known	Remarks
Involuntary Acquisition of Land				
1. Will there be land acquisition?		✓		No land acquisition is envisaged under the Mandi Zone Package-1(MZ-02)
2. Is the site for land acquisition known?				Not applicable
3. Is the ownership status and current usage of land to be acquired known?				Not applicable

Probable Involuntary Resettlement Effects	Yes	No	Not Known	Remarks
4. Will easement be utilized within an existing Right of Way (ROW)?				--
5. Will there be loss of shelter and residential land due to land acquisition?				--
6. Will there be loss of agricultural and other productive assets due to land acquisition?				--
7. Will there be losses of crops, trees, and fixed assets due to land acquisition?				--
8. Will there be loss of businesses or enterprises due to land acquisition?				--
9. Will there be loss of income sources and means of livelihoods due to land acquisition?				--
Involuntary restrictions on land use or on access to legally designated parks and protected areas				
10. Will people lose access to natural resources, communal facilities and services?		✓		Nobody will lose the access to any facilities either natural resources or communal facilities and services
11. If land use is changed, will it have an adverse impact on social and economic activities?		✓		No Change in Land use Pattern
12. Will access to land and resources owned communally or by the state be restricted?		✓		
Information on Displaced Persons:				
Any estimate of the likely number of persons that will be displaced by the Project? [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] Yes If yes, approximately how many? NA				
Are any of them poor, female-heads of households, or vulnerable to poverty risks? [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] Yes				
Are any displaced persons from indigenous or ethnic minority groups? [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] Yes				

Appendix 16: Indigenous People Impact Checklist

Project Data	
Country/Project Title	Himachal Pradesh Rural Drinking Water Improvement and Livelihood Project f) (HPRDWILP)
Subproject title	g) Mandi Zone Package-1 (MZ-02)
Project Executing Agency	h) Project Management Unit, Jal Shakti Vibhag (JSV)
Project Implementing Agency	i) Project Implementation Unit, Jal Shakti Vibhag (JSV)
Modality	j)
<input type="checkbox"/> Project Loan <input type="checkbox"/> Program Loan <input type="checkbox"/> Financial Intermediary <input type="checkbox"/> General Corporate Finance <input checked="" type="checkbox"/> Sector Loan <input type="checkbox"/> MFF <input type="checkbox"/> Emergency Assistance <input type="checkbox"/> Grant <input type="checkbox"/> Other financing modalities:	
IP Impact categorization <input checked="" type="checkbox"/> New <input type="checkbox"/> Recategorization — Previous Category <input type="checkbox"/>	
Category A: Significant IP impact	
Category B: Non-significant IP impact	
Category C: No IP impact <input checked="" type="checkbox"/>	
Subproject requires the broad community support of affected Indigenous Peoples communities <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Prepared by:	
Social Development Specialist (Name, title, signature): xxxxxxxxxxxxxxxx Date: NA	
For Project Implementing Agency (Name, title, signature): xxxxxxxxxxxxxxxxxxxxxxxx Date:	
For Project Executing Agency (Name, title, signature): xxxxxxxxxxxxxxxxxxxxxxxx Date:	

KEY CONCERNS (Please provide elaborations on the Remarks column)	YES	NO	NOT KNOWN	Remarks
A. Indigenous Peoples Identification				
1. Are there socio-cultural groups present in or use the project area who may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples), "minorities" (ethnic or national minorities), or "indigenous communities" in the project area?	v			The subproject area does not fall in a scheduled area, and has a small proportion (1.31% as per Census 2011) of population classified as scheduled tribe, which is scattered (does not stay in tribal groups / community enclaves), is well assimilated in society. No direct or indirect impacts to the dignity, human rights, livelihood systems or territories or natural or cultural resources of indigenous peoples are anticipated.
2. Are there national or local laws or policies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes, tribal peoples, national minorities, or cultural communities?	v			Same as above
3. Do such groups self-identify as being part of a distinct social and cultural group?				Same as above
4. Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				Not applicable
5. Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				Not applicable
6. Do such groups speak a distinct language or dialect?				Not applicable

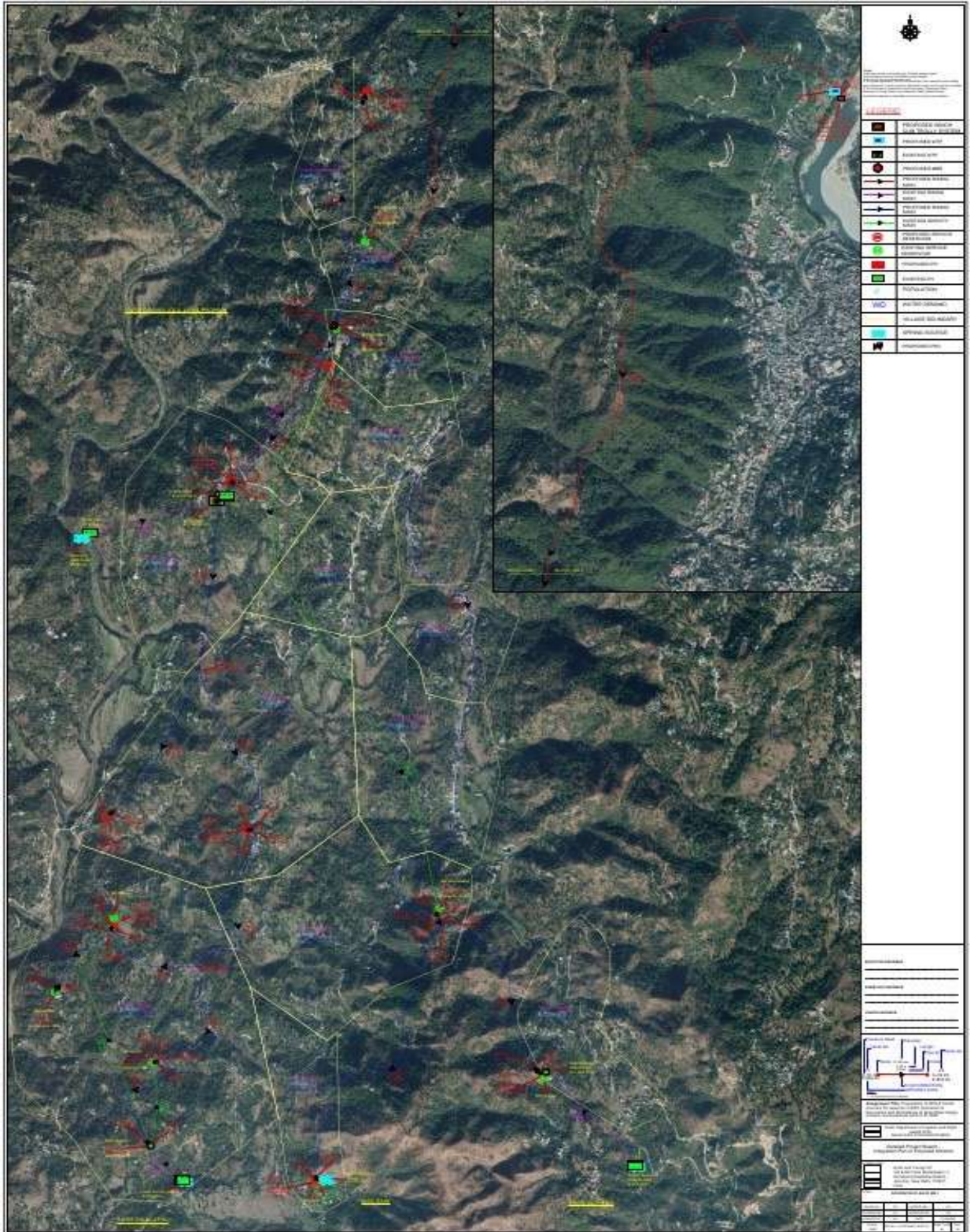
KEY CONCERNS (Please provide elaborations on the Remarks column)	YES	NO	NOT KNOWN	Remarks
7. Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				Not applicable
8. Are such groups represented as "Indigenous Peoples" or as "ethnic minorities" or "scheduled tribes" or "tribal populations" in any formal decision-making bodies at the national or local levels?	√			
B. Identification of Potential Impacts				--
9. Will the project directly or indirectly benefit or target Indigenous Peoples?		√		--
10. Will the project directly or indirectly affect Indigenous Peoples' traditional socio-cultural and belief practices? (e.g., child-rearing, health, education, arts, and governance)		√		--
11. Will the project affect the livelihood systems of Indigenous Peoples? (e.g., food production system, natural resource management, crafts and trade, employment status)		√		The project will not disturb any of the existing practices of the IPs.
12. Will the project be in an area (land or territory) occupied, owned, or used by Indigenous Peoples, and/or claimed as ancestral domain?		√		
C. Identification of Special Requirements <i>Will the project activities include:</i>				--
13. Commercial development of the cultural resources and knowledge of Indigenous Peoples?		√		--
14. Physical displacement from traditional or customary lands?		√		--

KEY CONCERNS (Please provide elaborations on the Remarks column)	YES	NO	NOT KNOWN	Remarks
15. Commercial development of natural resources (such as minerals, hydrocarbons, forests, water, hunting or fishing grounds) within customary lands under use that would impact the livelihoods or the cultural, ceremonial, spiritual uses that define the identity and community of Indigenous Peoples?		√		--
16. Establishing legal recognition of rights to lands and territories that are traditionally owned or customarily used, occupied or claimed by indigenous peoples?		√		--
17. Acquisition of lands that are traditionally owned or customarily used, occupied or claimed by indigenous peoples?		√		No tribal land will be acquired.

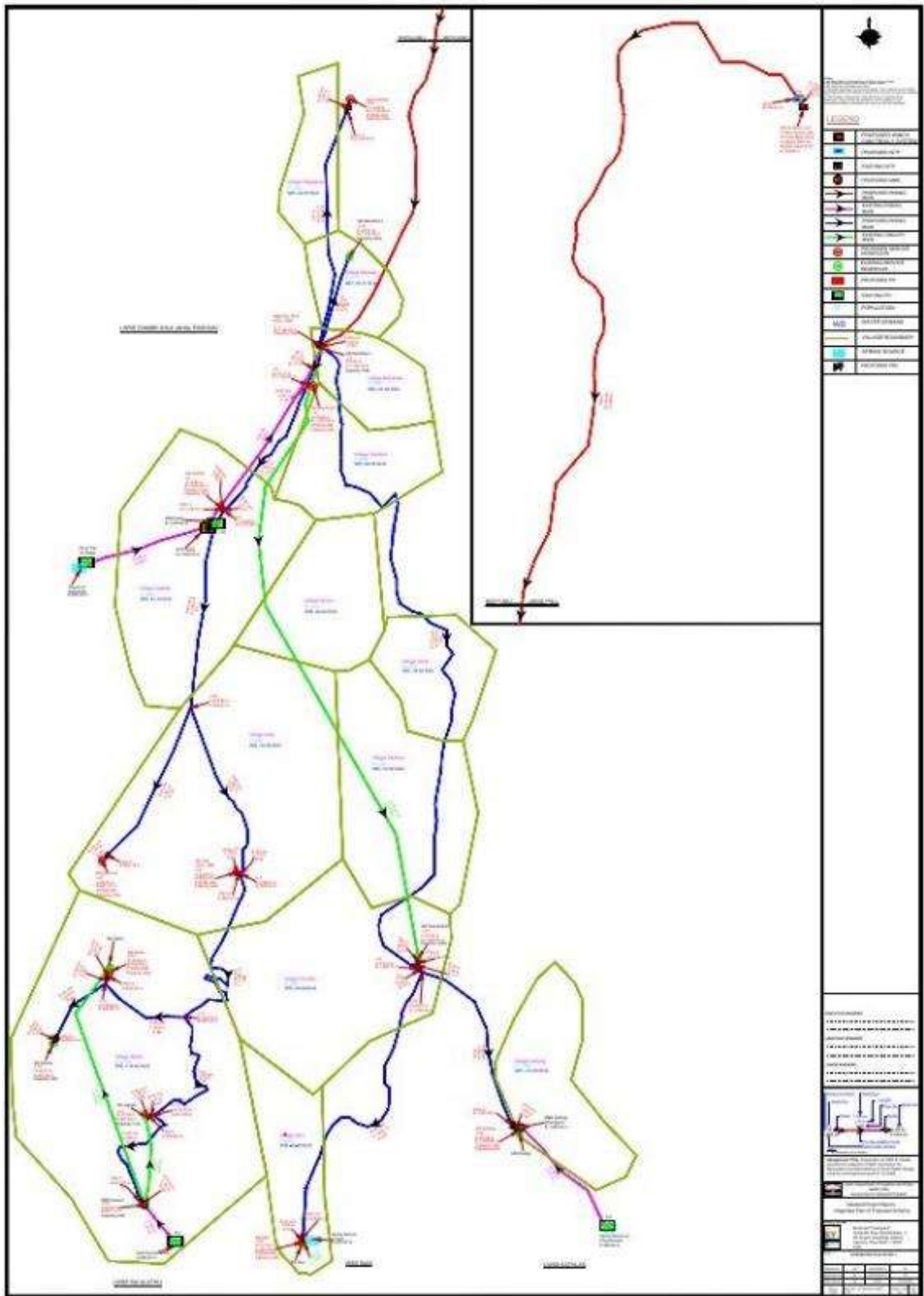
Anticipated project impacts on Indigenous Peoples

Project component/activity/ output	Anticipated positive effect	Anticipated negative effect
Himachal Pradesh Rural Drinking Water Improvement and Livelihood Project Mandi Zone Package-1 (MZ-02)	N/A	N/A

Appendix 17: Integrated Plans
Figure 17-1: Integrated Plan of Grid MS-1

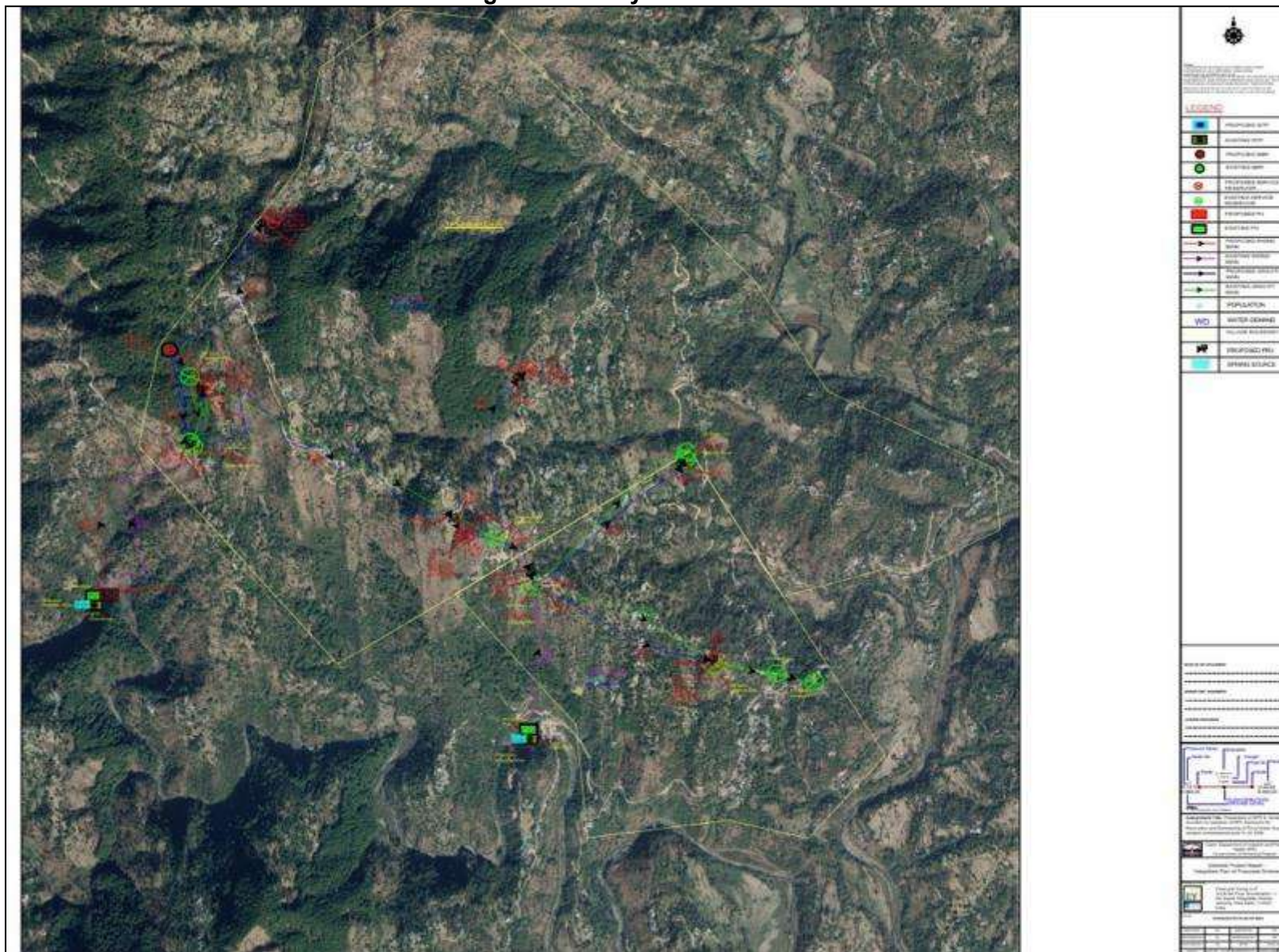


Source: Detailed Project Report, 2020-21

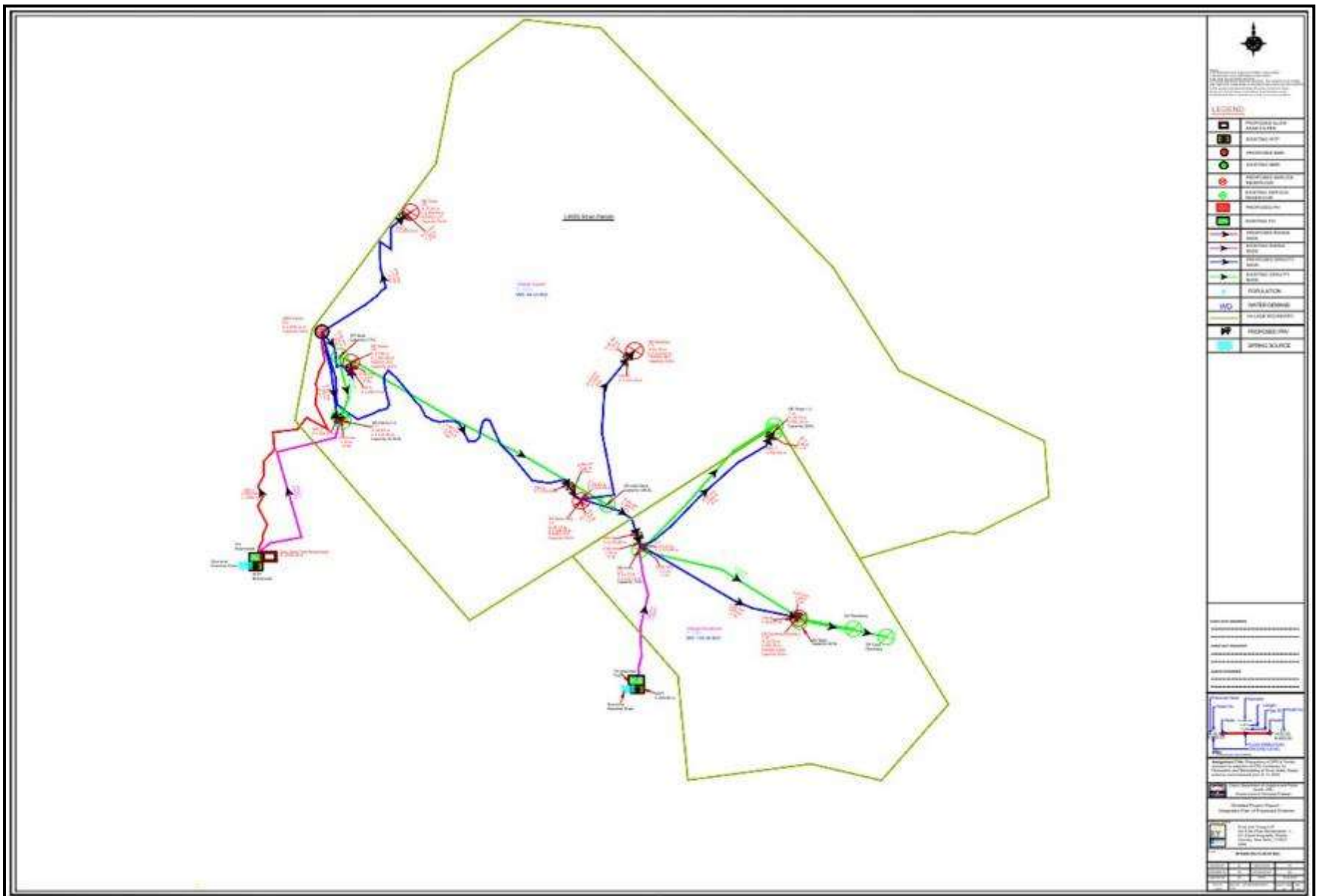


Source: Detailed Project Report, 2020-21

Figure 17-2: Layout Plan of Grid MS-2

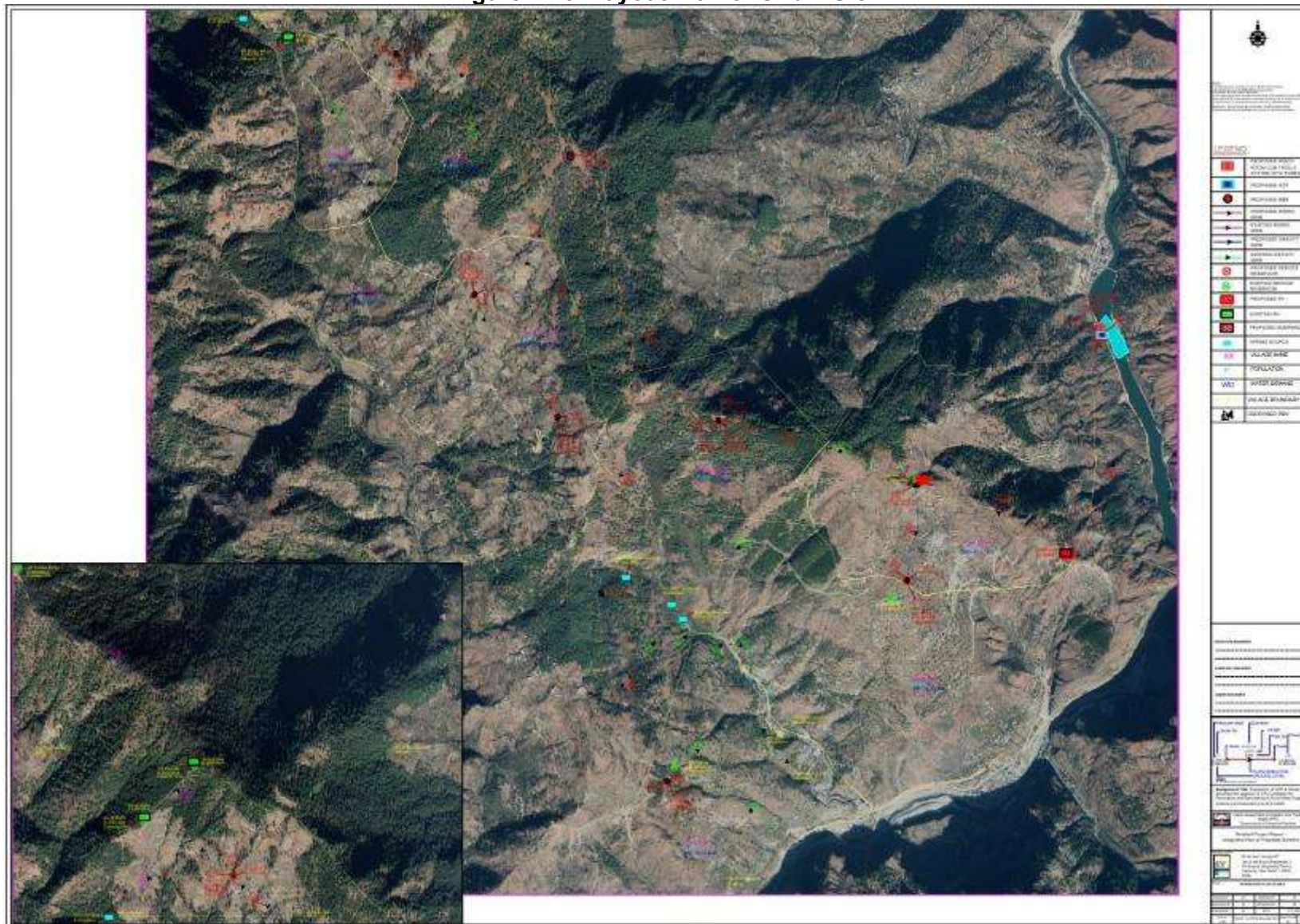


Source: Detailed Project Report, 2020-21

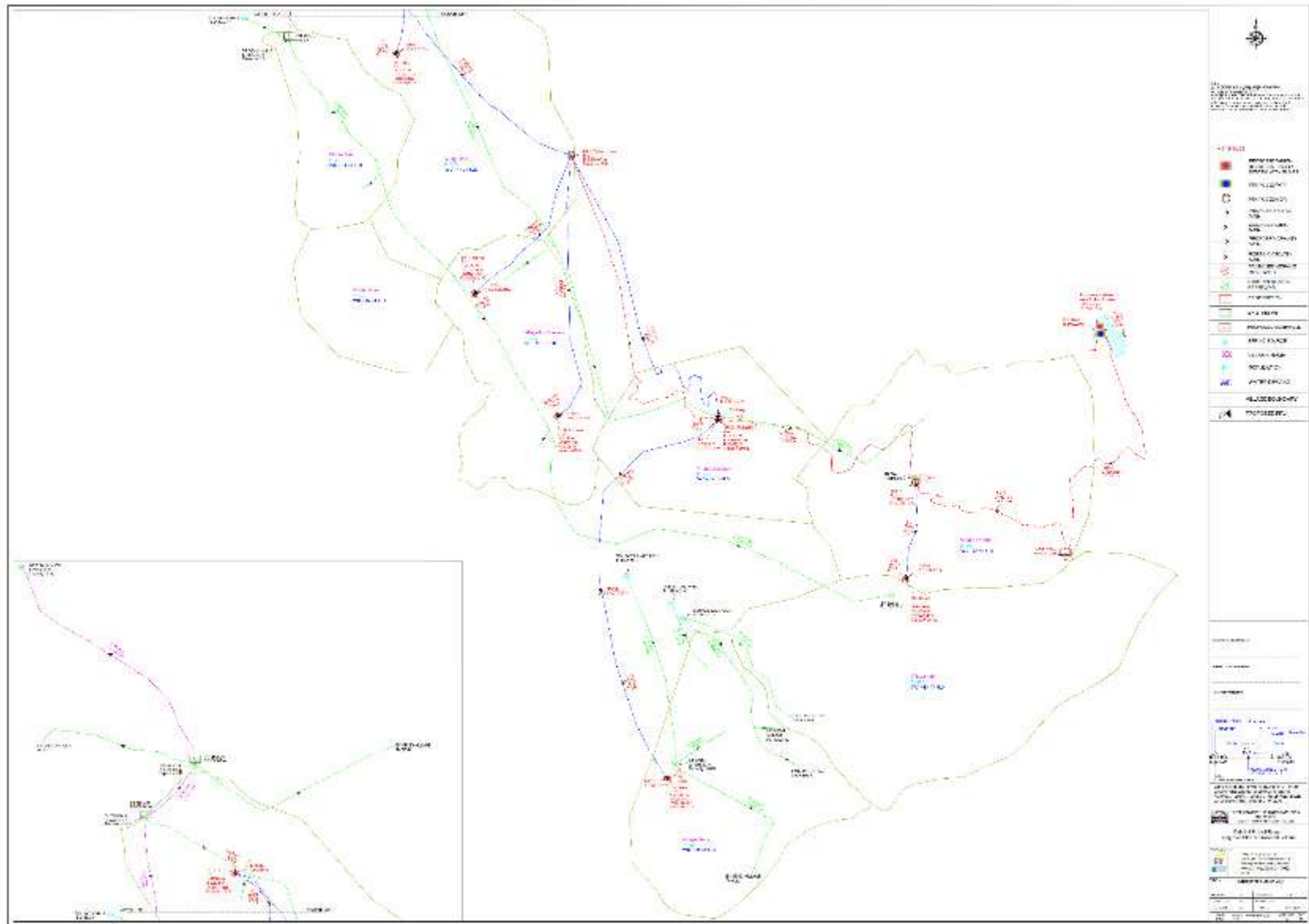


Source: Detailed Project Report, 2020-21

Figure 17-3: Layout Plan of Grid MS-3

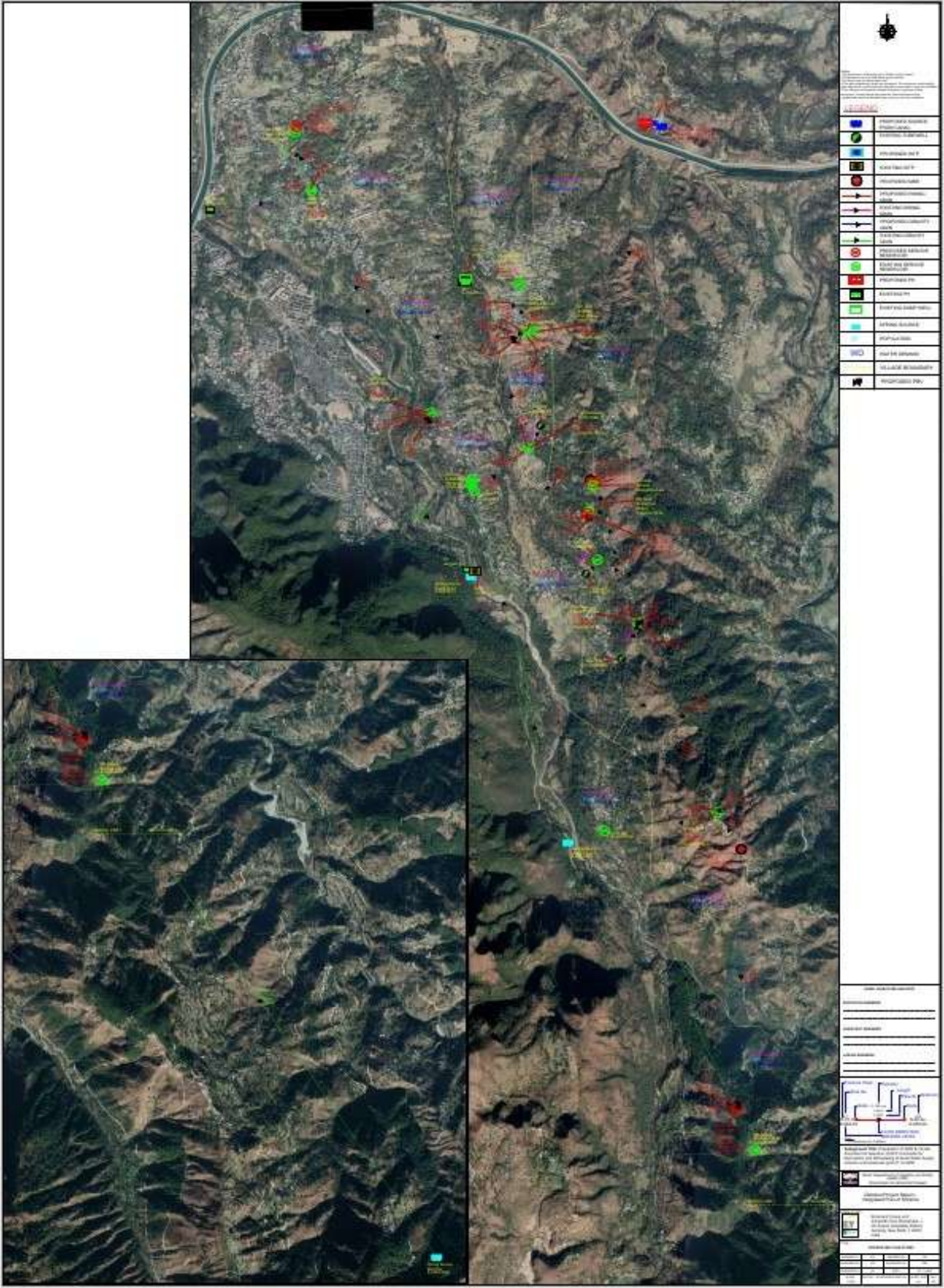


Source: Detailed Project Report, 2020-21

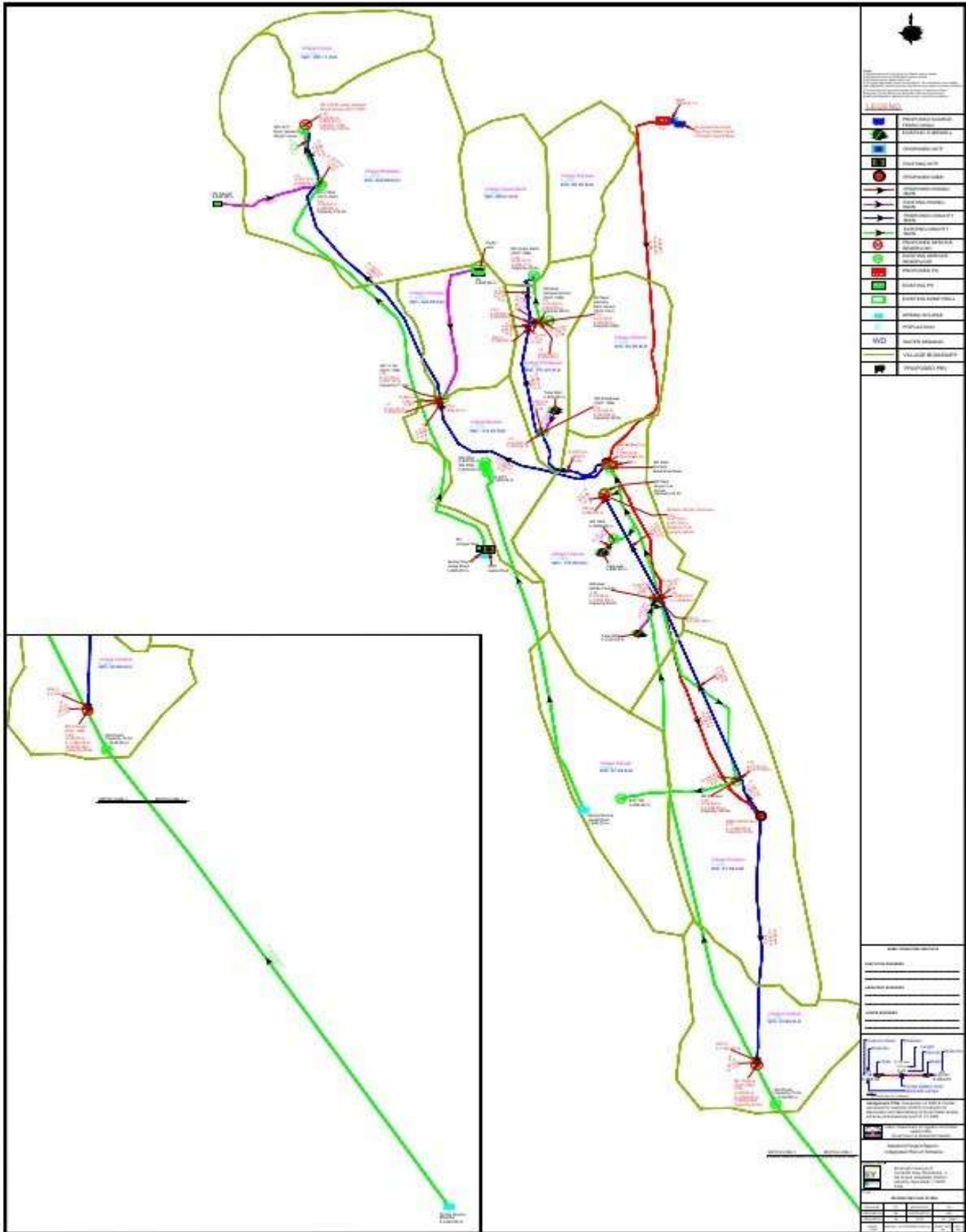


Source: Detailed Project Report, 2020-21

Figure 17-4: Layout Plan of Grid MS-5

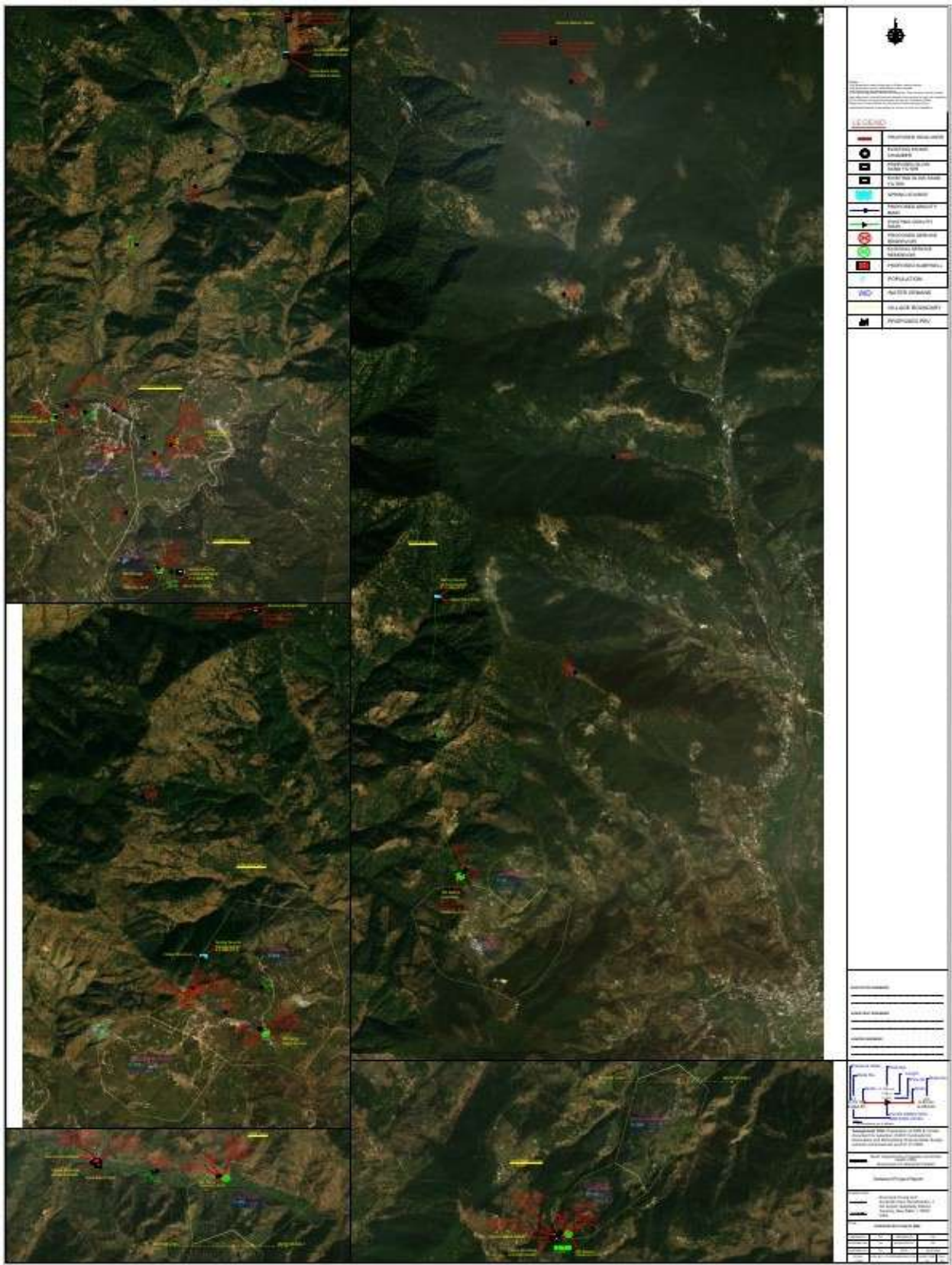


Source: Detailed Project Report, 2020-21

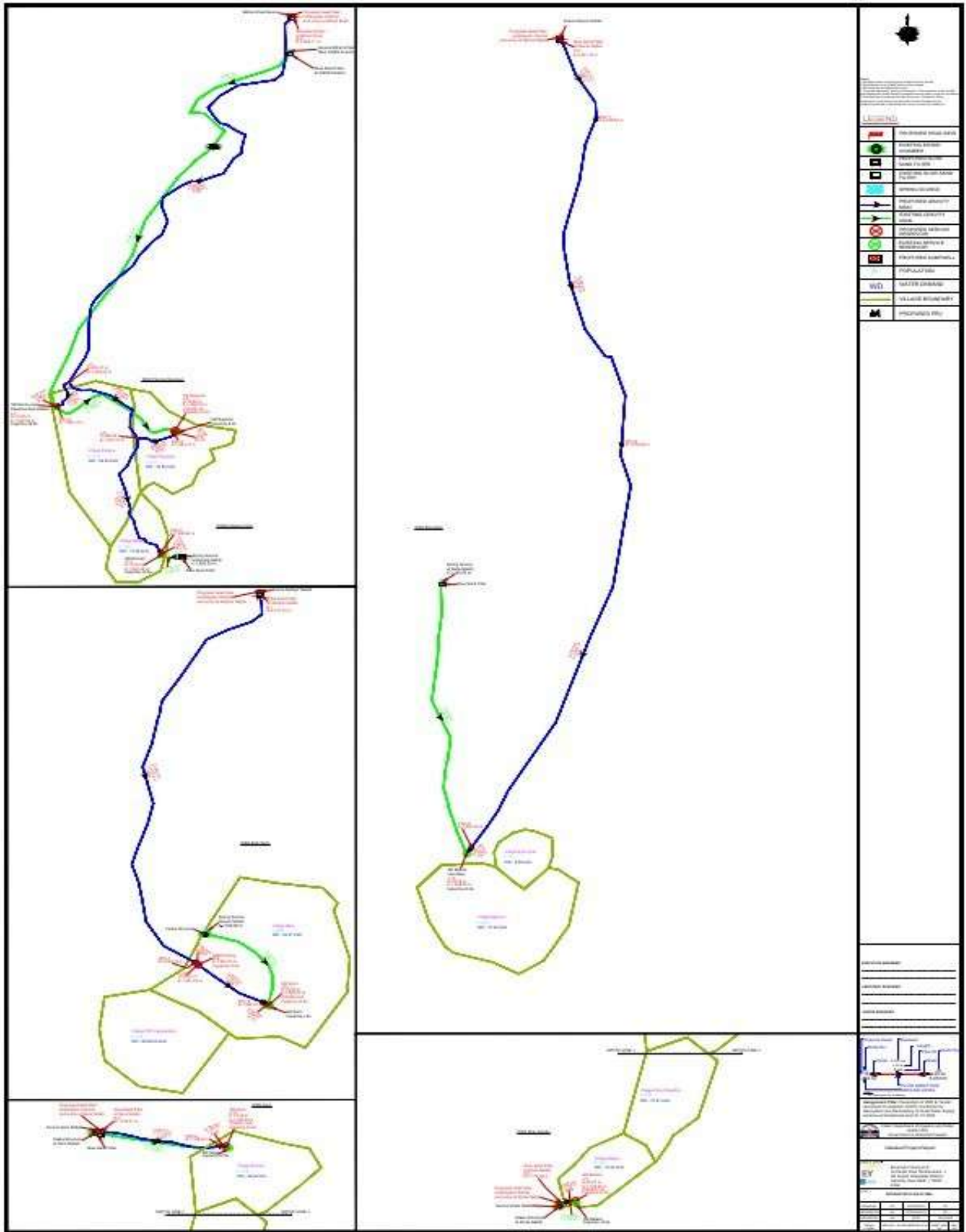


Source: Detailed Project Report, 2020-21

Figure 17-5: Layout Plan of Grid MS-6



Source: Detailed Project Report, 2020-21

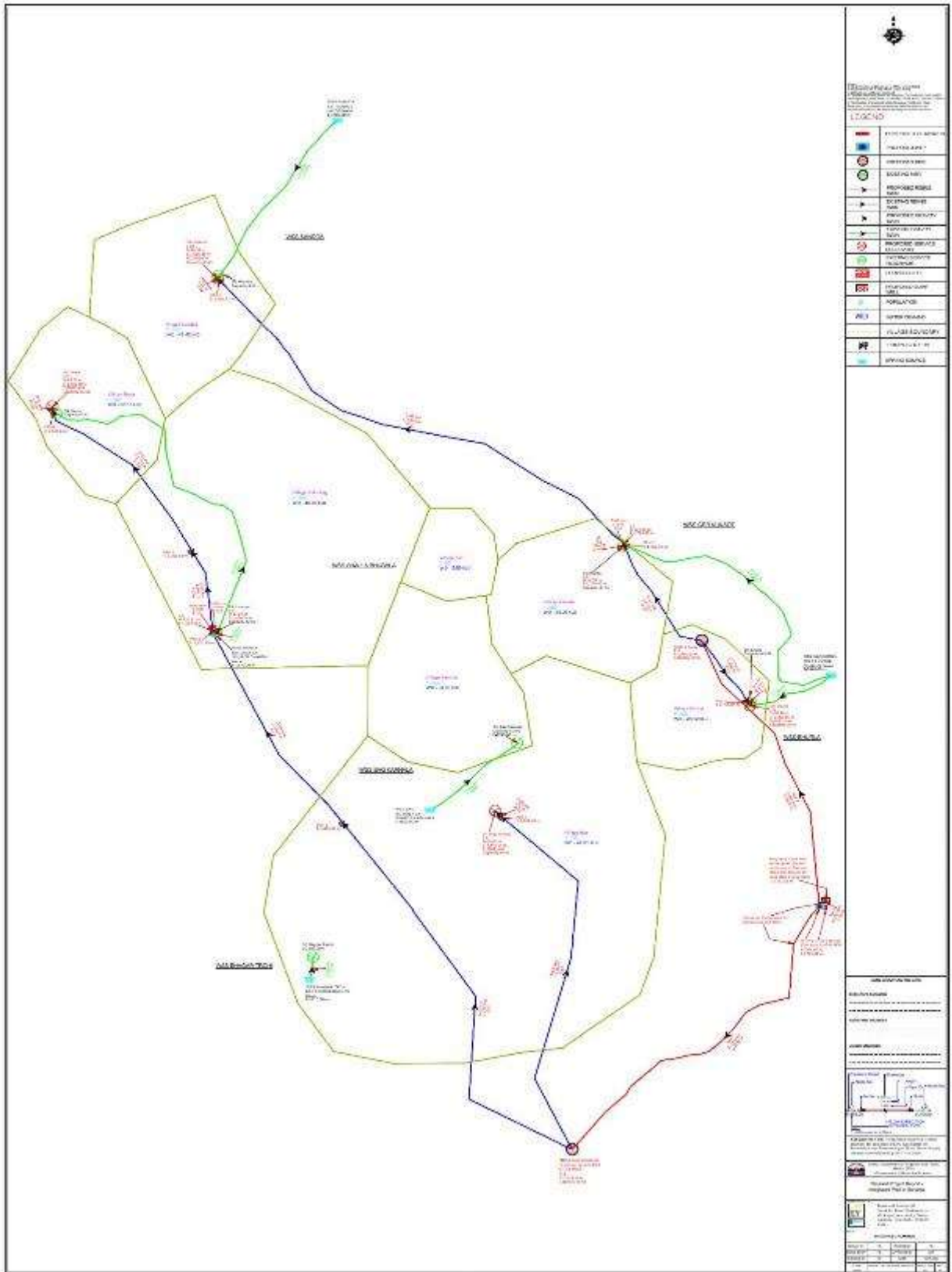


Source: Detailed Project Report, 2020-21

Figure 17-6: Layout Plan of Grid MS-8

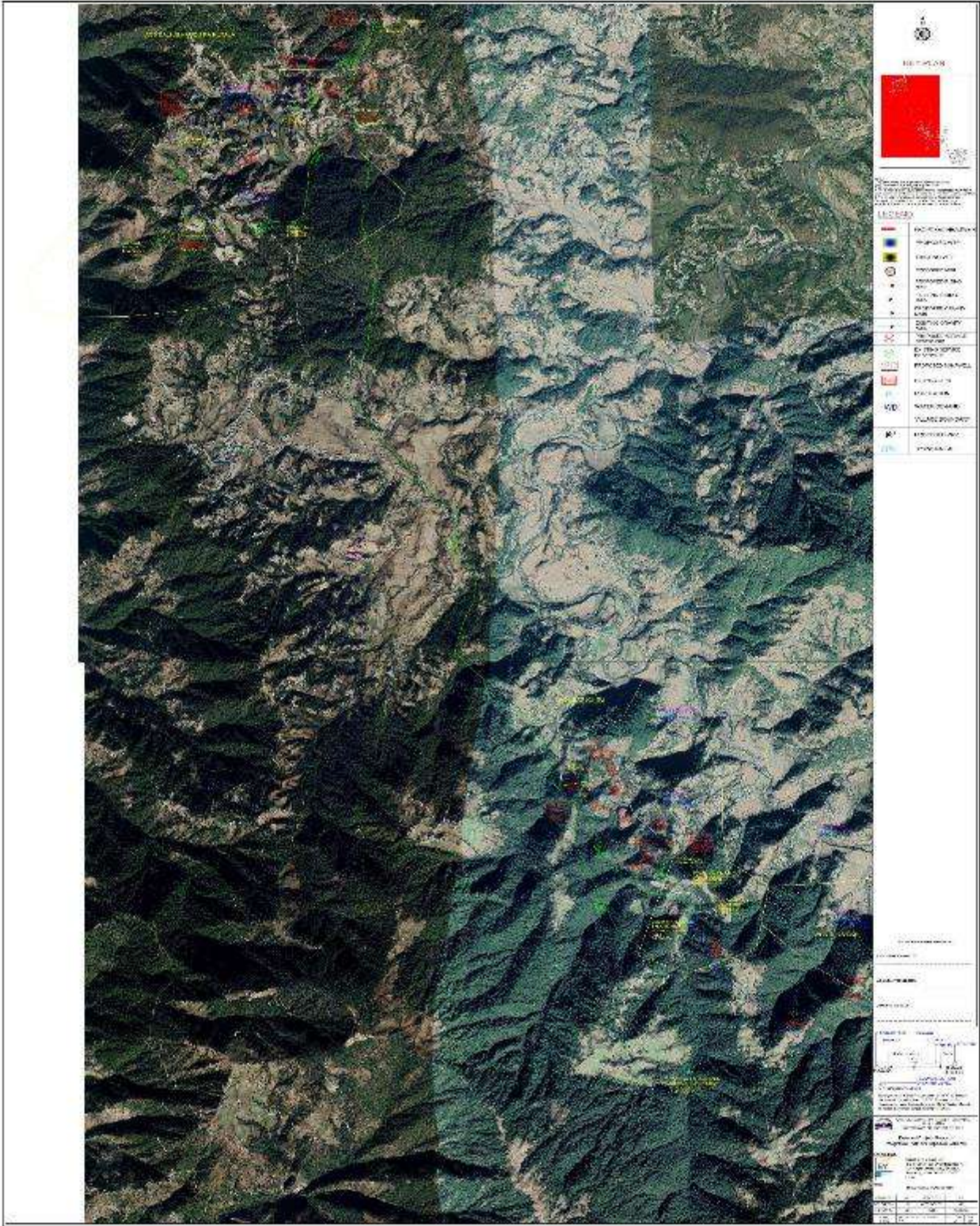


Source: Detailed Project Report, 2020-21

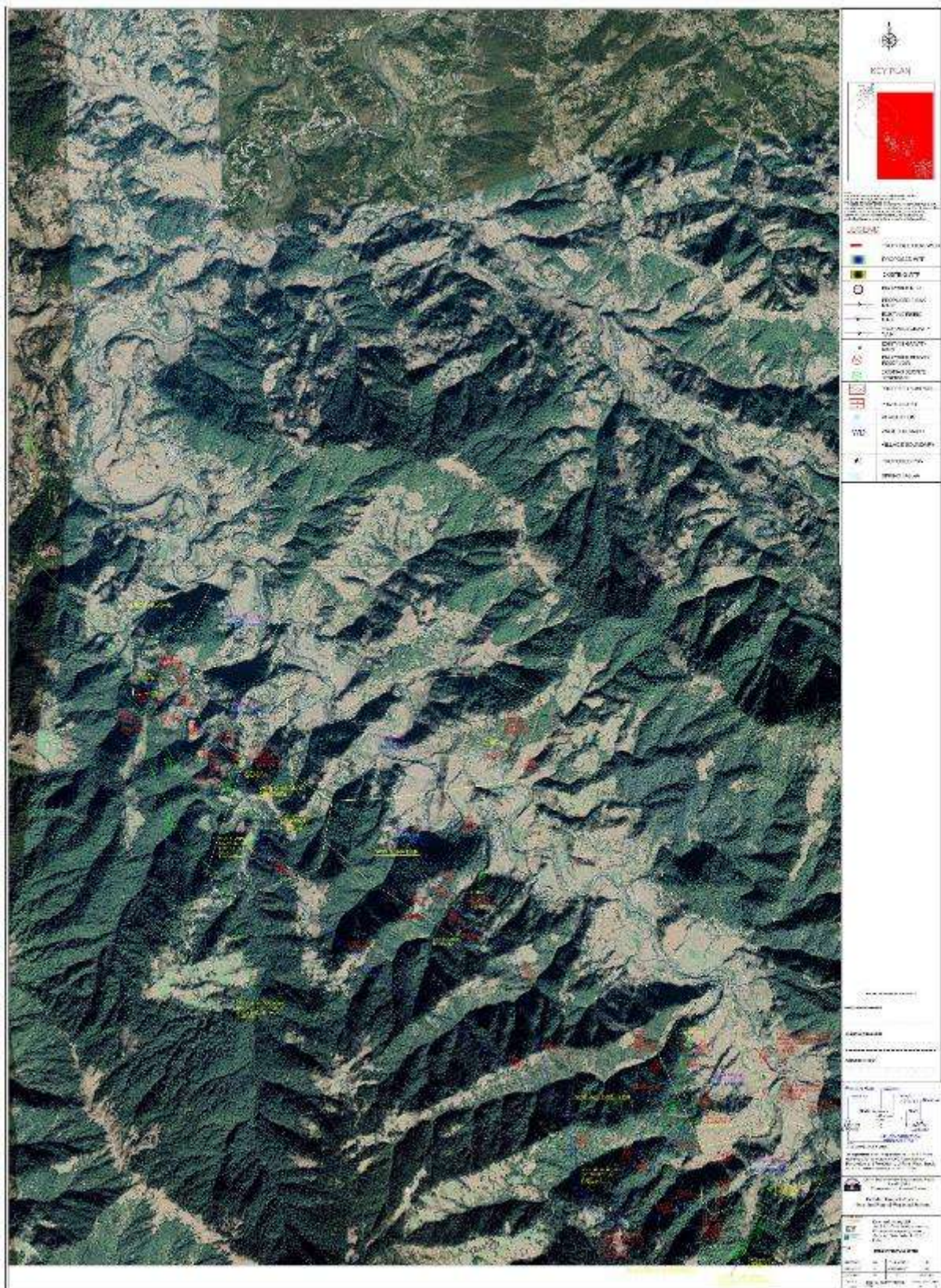


Source: Detailed Project Report, 2020-21

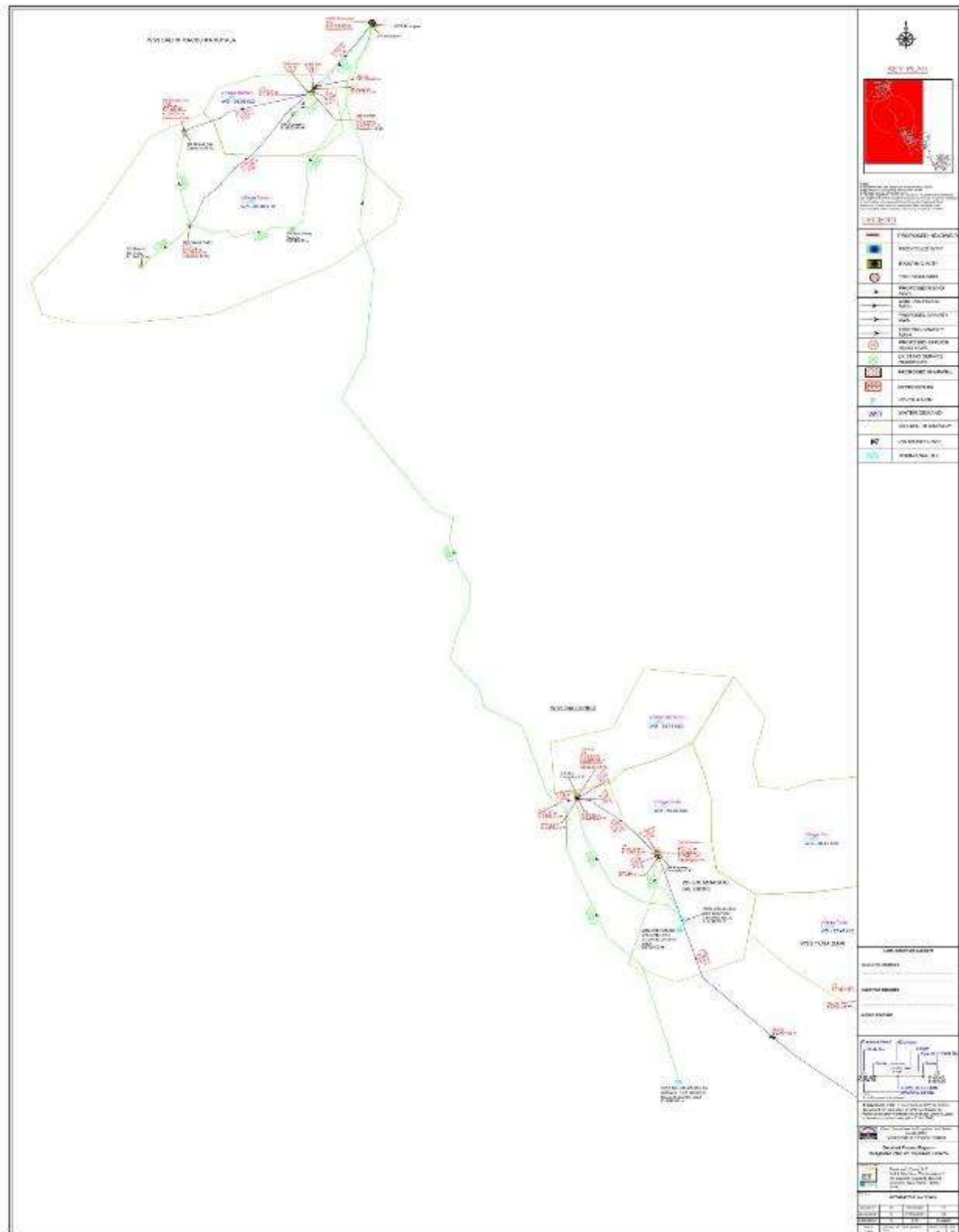
Figure 17-7: Layout Plan of Grid MS-9



Source: Detailed Project Report, 2020-21



Source: Detailed Project Report, 2020-21



Source: Detailed Project Report, 2020-21

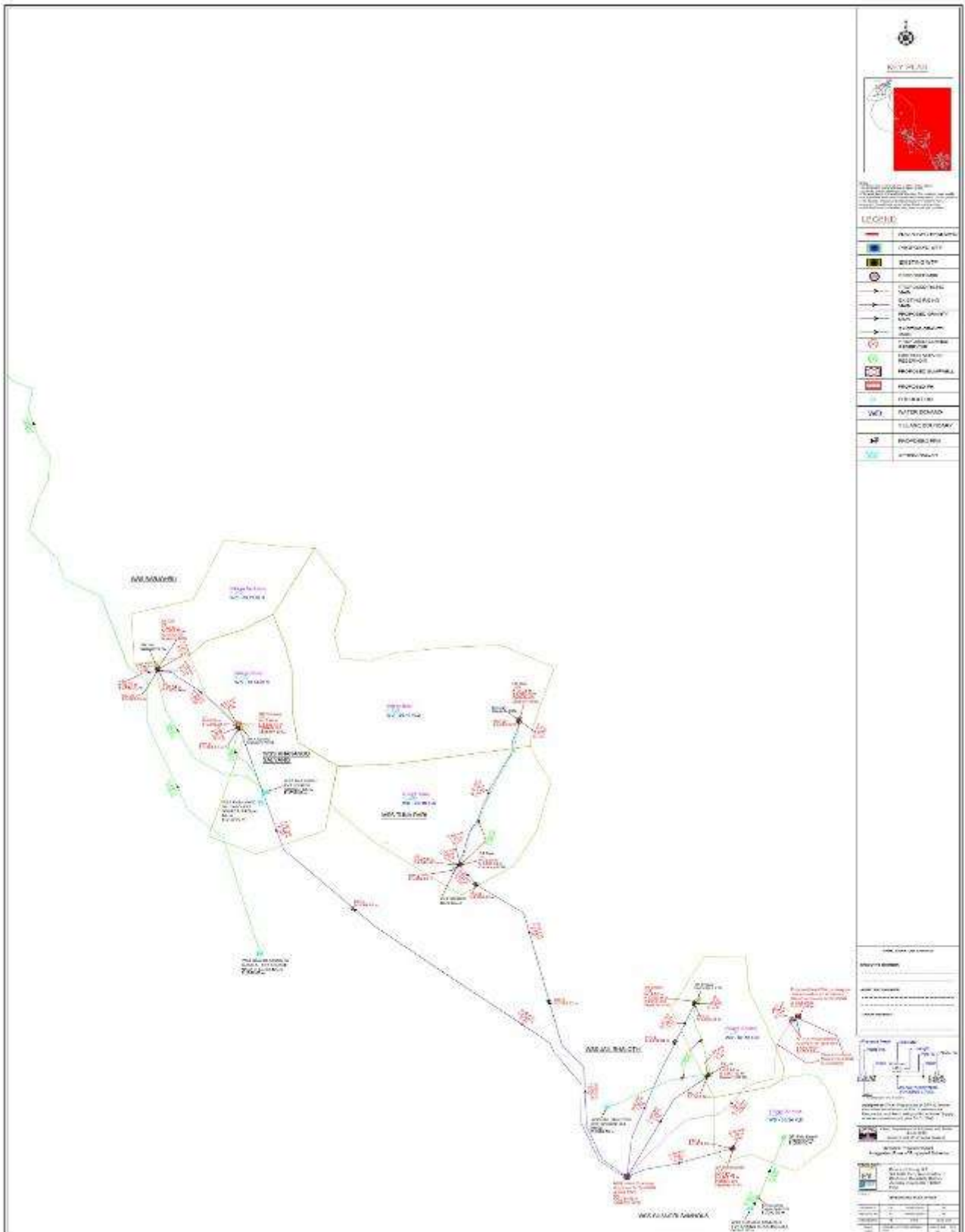
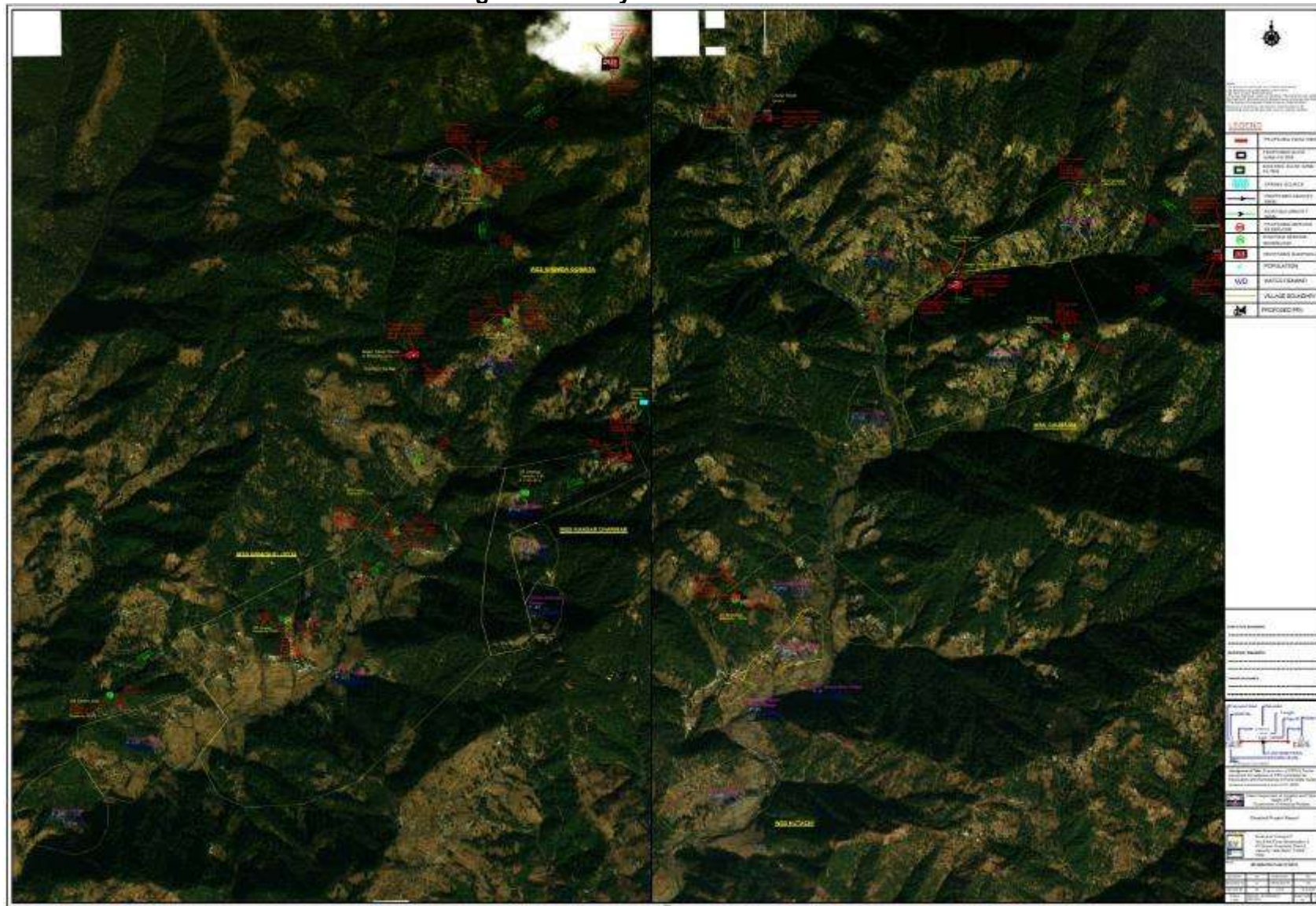
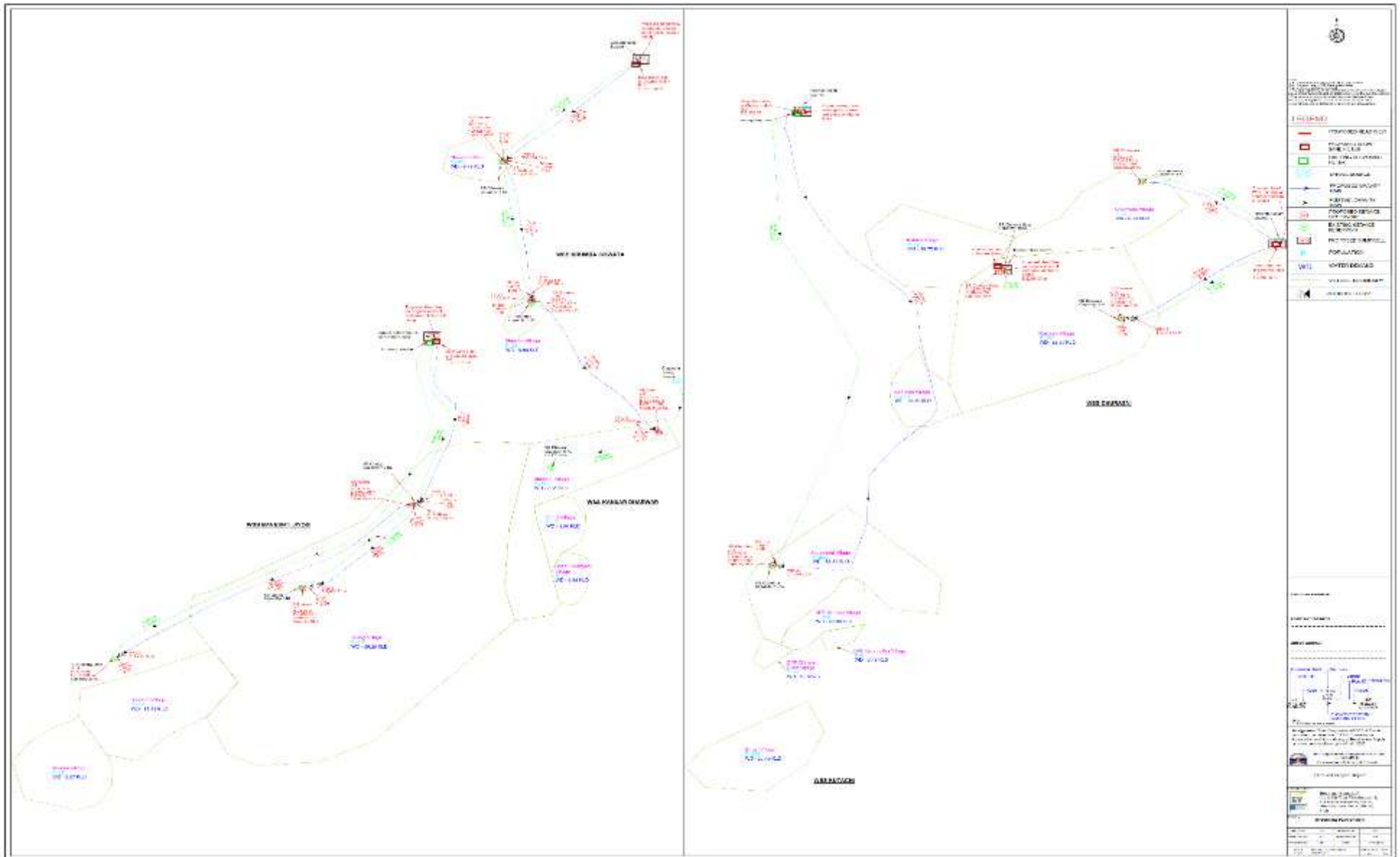


Figure 17-8: Layout Plan of Grid MS-15



Source: Detailed Project Report, 2020-21



Source: Detailed Project Report, 2020-21

Appendix 18: Survey Safety Protocol on COVID-19

Himachal Pradesh Rural Drinking Water Improvement and Livelihood Project (HPRDWILP)

A. Introductions

1. The Government of Himachal Pradesh has requested support from Asian Development Bank for the Himachal Pradesh Rural Drinking Water Improvement and Livelihood Project (HPRDWILP) to improve universal and equitable access to safe and affordable drinking water. The outcome of the project is reliability and efficiency of water supply in targeted districts enhanced. As a part of the social safeguard documents (Resettlement Plans, Due Diligence Reports), and Detail Measurement Surveys, socio-economic survey will require to be conducted for the project locations. As the COVID-19 situation is prevailing, safety protocol for survey work has been developed addressing COVID-19.

B. About the Corona Virus Disease

2. Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus. Most people infected with the COVID-19 virus will experience mild to moderate respiratory illness and recover without requiring special treatment. Older people and those with underlying medical problems like cardiovascular disease, diabetes, chronic respiratory disease, and cancer are more likely to develop serious illness. The COVID-19 virus spreads primarily through droplets of saliva or discharge from the nose when an infected person coughs or sneezes. At this time, there are no specific vaccines or treatments for COVID-19.⁶ However, precautions can be implemented to prevent and slow down the transmission of the virus.

C. Common Symptoms of Corona Virus Disease⁷

3. COVID-19 affects different people in different ways. Most infected people will develop mild to moderate illness and recover without hospitalization.

Most common symptoms:

- fever;
- dry cough;
- tiredness.

Less common symptoms:

- aches and pains;
- sore throat;
- diarrhea;
- conjunctivitis;
- headache;
- loss of taste or smell;
- a rash on the skin, or fingers or toes become pale.

Serious symptoms:

- difficulty breathing or shortness of breath;

⁶World Health Organization. [HTTPS://WWW.WHO.INT/HEALTH-TOPICS/CORONAVIRUS#TAB=TAB_1](https://www.who.int/health-topics/coronavirus#tab=tab_1)

⁷World Health Organization. [HTTPS://WWW.WHO.INT/HEALTH-TOPICS/CORONAVIRUS#TAB=TAB_1](https://www.who.int/health-topics/coronavirus#tab=tab_1)

- chest pain or pressure;
- loss of speech or movement.

D. Personal Protective Equipment that should be worn by survey team of HPRDWILP

4. While in the field, all the members of the survey team shall use or wear proper personal protective equipment (PPE) at all times. These PPEs may be removed on certain circumstances only, such as, but not limited to, eating, drinking, and any other task or activity that the PPE may inhibit the action. However, during these times, strict observance of social distancing is required.

5. The most common type of PPEs that should be worn by the field surveyors and enumerators are the following:

- **Reusable mask or surgical mask.** Reusable masks should be maintained clean per the manufacturer's instruction. Surgical masks should not be reused.
- **Face shield.** This PPE is especially useful for the field workers especially when talking to various people in a relatively confined space or indoors.
- **Gloves.** This is especially useful in situations in the field where items are being passed around from one hand to another, and no available hand sanitizers, or water and soap for handwashing after the activity.

E. Safety Protocol for Survey Work

1. The survey team of HPRDWILP should ensure the following.

- Before undertaking the survey, ensure that the respective Gram Panchayats and other local administrative bodies has been informed by HPRDWILP about the survey.
- Never carry out survey activities in containment zone, if any, and undertake surveys in such areas after restrictions are lifted and necessary approvals are obtained for survey work.
- Maintain adequate stock of masks and sanitiser for survey team; and single-use surgical mask for respondents.
- The team should have handheld contactless temperature scanner and pulse oximeter (minimum 3-sets).
 - a) To test all members of the survey team every morning before starting of survey to ensure no persons are having a fever (above 100 F or 38 C) and oxygen saturation level (should be above 95).
 - b) Once in the field, the head of the team should test the temperature of every respondent before assigning a team member to a particular respondent.
 - i. The temperature of the respondent should be below above 100 F or 38 C.
 - ii. If the temperature is high, then advise such respondents to take a rest and consult a doctor.
 - c) FGDs should be held only if allowed by District administration and situation permits. Otherwise, avoid FGDs.
 - d) If FGDs are conducted, ensure it is held in the open, ensuring that participants are seated at least 1-meter apart.

- e) Ensure there is no handshaking or any physical contact between participants and provide surgical mask to all participants.
 - f) Participants with fever, if any, should be asked to stay at home and not join the FGD.
6. Check daily the latest information on areas where COVID-19 is spreading and ensure no survey work is undertaken in any area declared as a containment zone.
7. Ensure no member of the survey team is in the high-risk category, those with medical conditions such as diabetes, heart, lung disease, etc. If any, counsel them and exclude them from the survey activity.
8. Ensure that no respondent with fever, cough, and cold is included in the enumeration, and collect information from some other member of the family who is in good health. If all members of the family are unwell, skip enumerating such families.
9. Mobile phones of the survey team, laptop, etc. need to be wiped with disinfectant daily on return from the field.
10. The general safety protocol and COVID-19⁸ will be implied for the entire survey team of HPRDWILP.

2. Every enumerator/Interviewer of the survey team should strictly adhere to the following safety measures

11. HPRDWILP will provide an adequate number of branded N95 masks (single use only). At the end of each day, upon reaching home/place of stay, cut the mask into 2-pieces (to prevent recycling) and safely dispose of it in a separate wrapper as per State guidelines.
12. The enumerator/ interviewer should have a shoulder bag for carrying the hand sanitiser, single-use surgical masks, hand towel, survey tablet, identity card, water bottle, etc.
13. He should use N95 mask before setting out of his place to survey location and should use it throughout the day, till he completes the day's survey work and returns to his place.
- a) Before putting on the mask, clean hands with alcohol-based hand sanitise or soap and water.
 - b) Cover mouth and nose with mask and make sure there are no gaps between the face and the mask.
 - c) Avoid touching the mask while using it; if it is touched, clean hands with alcohol-based hand sanitise immediately after touching the mask.
 - d) To remove the mask: remove it from behind (do not touch the front of the mask); clean hands with alcohol-based hand rub or soap and water; and wash the mask with washing soap and dry it in sunlight.
14. Before and after every household survey, clean hands thoroughly with an alcohol-based hand sanitiser, which will be provided by HPRDWILP.

⁸<https://www.adb.org/documents/series/covid-19-asia-pacific-guidance-notes>

- a) Avoid touching eyes, mouth, and nose immediately after using the hand sanitiser, as it can cause irritation.
 - b) Under no circumstance, drink or let children at home or survey-place, swallow the hand sanitizer. It can be poisonous.
 - c) Hand sanitizers recommended to protect against COVID-19 are alcohol-based and therefore can be flammable, be careful.
15. Wash hands with soap and water or using alcohol-based hand sanitiser before having tea and lunch.
16. Carry a freshly washed hand towel every day to dry your hands after washing.
17. Maintain at least 2 metre (6 feet) distance between yourself and the respondent and others during the enumeration.
- a) Since the place of the respondent to be surveyed, may be congested and it may be difficult to maintain the minimum 6-feet distance, ensure that the respondent wears a mask throughout the enumeration.
 - b) Collect and keep some single-use surgical masks from your supervisor for giving to respondents.
 - c) Request respondents to avoid crowding of other family members when the enumeration is in progress.
18. After collecting and handing over the identity cards for taking photographs, ensure that hands are cleaned using alcohol-based hand sanitiser.
19. Avoid going to crowded places during and after enumeration.
20. Avoid touching eyes, nose, and mouth until reaching home and have taken a bath.
- a) Use shampoo and wash hair thoroughly.
 - b) Wash clothes and dry them in sunlight.
 - c) All gadgets and materials used during survey should be disinfected, put in one bag and keep away from any family member, to ensure no virus is brought into the households of enumerators/surveyors.
 - d) Dispose off used face masks properly as described above. Face shields should be properly washed or disinfected as well.
21. Consume only cooked hot food and avoid consuming any packaged food.
- a) Carry drinking water and keep the body hydrated.
 - b) Drink hot water, wherever possible
22. Avoid public transport for local travel and use vehicle/motorcycle of HPRDWILP (if possible) to reach survey places (settlements).
- a) If auto-rickshaw is used ensure only 2-persons travel and in taxi, 3-persons. As much as possible, avoid auto and taxi, and use motorcycle or cycle instead.
 - b) If someone has any minor symptoms such as cough, headache, mild fever, inform HPRDWILP, and stay at home. Do not come for the survey work.

- c) At home, be isolated from others.
- d) call the nearest government COVID-19 health care contact person and give details of your symptoms and places that is visited for survey work.

F. Important

23. HPRDWILP will facilitate testing of the members for COVID-19, once they reach the destination town and the supervisors should be in self-quarantine till results come. Only after the result is known and is Negative, the survey activities should commence. If anyone tests Positive, then such a person should immediately contact the hospital and take treatment as recommended.