

Land Acquisition and Involuntary Resettlement Due Diligence Report

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India: Himachal Pradesh Rural Drinking Water Improvement and Livelihood Project

Package No: MZ01 (Mandi Zone Package-3 Kullu)

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
sqm/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 & 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 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 MZ01 (Mandi Zone Package 3) 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 sixteen (16) Water treatment Plants of various capacities from 35 KLD to 1500 KLD; (ii) Twelve (12) Pump houses; (iii) Sixteen (16) Main Balance Reservoirs of various capacities ranging from 20 KL to 95 KL; (iv) Seventy two (72) Service Reservoirs of various capacities from 20 KL to 235 KL; (v) house service connections (8,247 units); (vi) electrical and mechanical works; (vii) operation and maintenance of Water Supply system (for 5 years); (viii) Laying of approximately 450 km of water distribution supply pipeline; (ix) Three (3) diversion spurs; (x) Nineteen (19) RCC intake chambers; (xi) Four (4) tubewell intakes with pumps

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 Kullu, MZ01, belongs to Mandi zone and consists of rural regions of Kullu district, Himachal Pradesh MZ01 (District Mandi Package 3) comes under Kullu Circle and comprises three (3) divisions viz. Kullu division-1, Kullu division-2 (Shamshi), &Anni divisions. These divisions are further divided into subdivisions. This package is an integration of six (6) grids, comprising of twenty-eight (28) 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 MZ01 is shown in Table 1 below:

Table 1: Projected Population and Water Demand

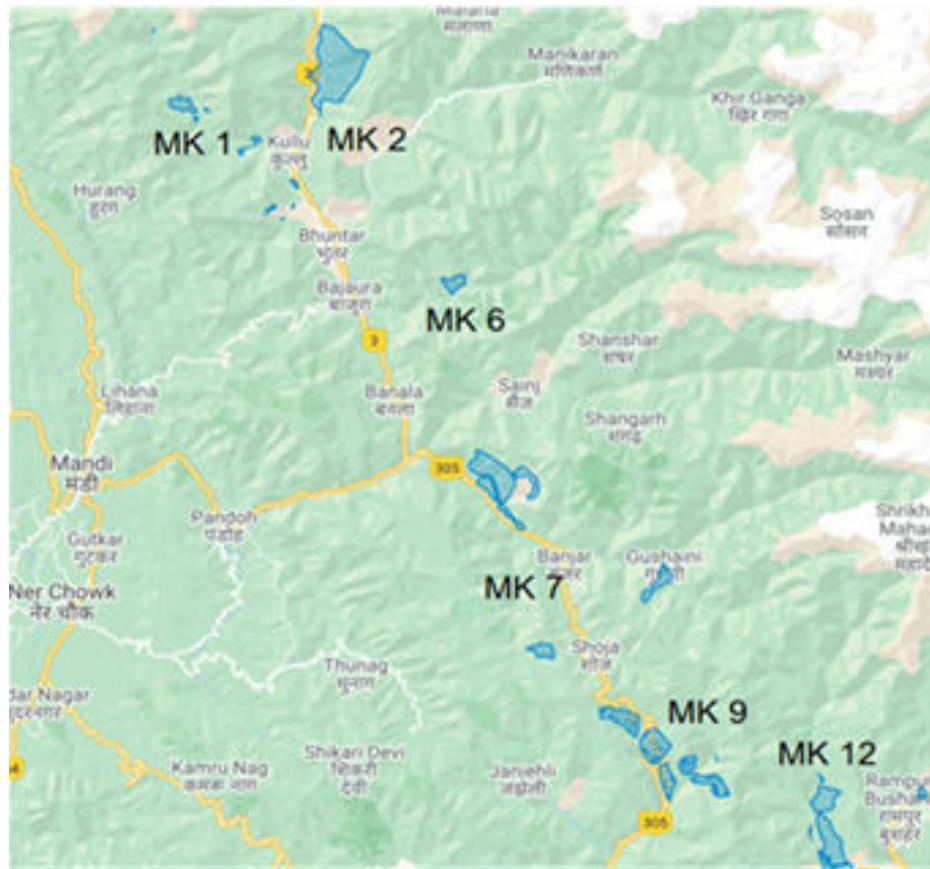
Package	Scheme	Grid ID	District	Circle	Division	Villages (Nos.)	Habitation (Nos.)	Population (Nos.)			Water Demand (KLD)		
								2011	2022	2042	2011	2022	2042
MZ01	WSS Samalang in GP Mangarh	MK1	Kullu	Kullu	Division-1, Kullu	5	17	2574	2934	3580	244.53	278.73	340.10
	WSS Mashana in Tehsil & Distt Kullu												
	WSS -Gramang in GP Choparsa												
	WSS Phallain in GP Phalan												
	WSS DughilagShildhari												
	WSS DharaGhot	MK2	Kullu	Kullu	Division-1, Kullu	4	40	11584	13195	16092	1100.48	1253.53	1528.74
	WSS ChachogaMalahar												
	WSS KaisBishtbehar												
	WSS Soil Sor Kararsu												
	WSS Seobag												
	WSS Sarach, Kolibehar, Badah&KhalyaniPadhar in Tehsil Bhunter, Distt. Kullu HP.	MK6	Kullu	Kullu	Shamshi	2	17	2061	2355	2865	195.80	223.73	272.18
	WSS NeenuJeshtain TehsilBhunter Distt. Kullu (H.P)												
	WSS NaroIGarsaDharain TehsilBhunter Distt. Kullu (H.P)	MK7	Kullu	Kullu	Shamshi	5	66	5414	6193	7546	514.33	588.34	716.87
	WSS SarchiBandalArkhali Phagwara in Tehsil Banjar Distt. Kullu (H.P)												
	WSS Seraj in Tehsil Banjar Distt. Kullu (H.P)												
WSS Thatibir, Targali&Manglore etc. in Tehsil Banjar Distt. Kullu (H.P)													
WSS Khanag in G.P Khanagin Anni Block.	MK9	Kullu	Kullu	Anni	5	111	6311	7236	8812	599.55	687.42	837.14	
WSS NagotPalli in G.P. Kohila in Anni Block.													

Package	Scheme	Grid ID	District	Circle	Division	Villages (Nos.)	Habitation (Nos.)	Population (Nos.)			Water Demand (KLD)			
								2011	2022	2042	2011	2022	2042	
	PWSS ParkotKamand in G.P. Kohila in Anni Block.													
	PWSS KadviKafti in GP Buchchair In Ani Block													
	PWSS KhunBandalJadar Chowki etc. in G.P. Khaniin Anni Block.													
	PWSS. DugaShigan in GP Deothi in Ani block.													
	PWSS ShanuJaterh in G.P. Arsu in Nirmand Block.													
	WSS Nirmand in NirmandBlock Distt. Kullu (H.P)	MK12	Kullu	Kullu	Anni	6	41	8122	9257	11292	771.59	879.42	1072.74	
	WSS RemuKedas in Nirmand block Distt. Kullu (H.P)													
	WSS Bail Dharopa in Nirmand Block													
	WSS Koil in Nirmand block													
	PWSS Chatti in G.P. Tunan in Nirmand block.													
	TOTAL					27	292	32263	36842	44908	3064.99	3499.99	4266.26	

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

13. As mentioned in the table above, MZ01 (District Mandi Package-3) is covering 27 villages and 292 habitations, having a population of 36,842 and 44,908 in 2022 and 2042 respectively. The water demand for 2022 and 2042 is ~3500 KLD and ~4266 KLD respectively. The geographical spreads of the six grids in MZ01 is shown below:

Figure 1: Location of Project Area



Mandi Zone Package 3

Source: Google Earth

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% piped water supply to the households of the project area.

15. All the schemes were commissioned prior to year 2000. Most of the water supply infrastructure including water tanks, source intakes, 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 newly proposed subproject components and of existing components proposed for rehabilitation are shown in the Table 2 and 3 respectively:

Table 2: Newly Proposed Subproject Components

Grid No	Infrastructure	Description
MK-1	Proposed Water Source	Proposed twelve (12) intake chambers at Roe Aage spring, Phalas spring, Thach nallah spring-1, at Thach Nallah spring-2, Chicham, Mashna nallah spring-1, Mashna nallah spring-2, Kala pani spring, Surgamani spring, Pawanag spring, Chhaya pani spring and Naya pani spring.
	WTPs	Not Proposed
	Pump houses	Nil
	MBR	Construction of one MBR of capacity 20KL
	SR	Construction of 10 Nos. of SRs (8*20KL, 40KL and 65KL)
MK-2	Proposed Water Source	Proposed four 4 Borewells sources at <ul style="list-style-type: none"> • left bank of beas river opposite bandrol, • left bank of Beas River at seobag Bridge, • near Village Badah • Jkharu Gharat MohalKhad. Proposed two intake Chambers on Nallah Sources i.e., Khuad Nallah &Kais Nallah
	WTPs	Construction of six WTPS: <ul style="list-style-type: none"> • WTP Bandrol – 366.42 KLD • WTPSeobagh – 219.93 KLD • WTPBadah – 427.41 KLD

Grid No	Infrastructure	Description
		<ul style="list-style-type: none"> • WTPKotdhar – 275.785 KLD • WTP Ghot – 165.11 KLD • WTP Jhakru Gharat Mohalkhad – 74.1 KLD
	Pump houses	Construction of six PHs: <ul style="list-style-type: none"> • Pump House near Proposed WTP Bandrol, • near Proposed WTP Seobagh, • near Proposed WTP Badah, • near Proposed WTPJhakru Gharat Mohalkhad, • near Proposed MBR Katai, • near Proposed MBR Bhrogi
	MBR	Construction of 6 Nos. MBRs (20KL,20KL, 25KL, 25KL, 45KL & 95KL)
	SR	Construction of 22 No. SRs (14 Nos. of 20 KL, 2 Nos. of 25 KL, 2 Nos of 40KL, 1 no. of 35KL, 50 KL, 70 KL & 215 KL each)
MK-6	Proposed Water Source	Proposed one source: Head Weir on Sotak Nallah
	WTPs	Construction of three WTPs: <ul style="list-style-type: none"> • Proposed WTP Jaishtha -85.025 KLD • Proposed WTP at Naroul -87.305 KLD • Proposed WTPNautodNiul -41.99 KLD
	Pump houses	Not Applicable
	MBR	Construction of 2 Nos. MBRs of capacities 20 Kl and 40 KL
	SR	Construction of 3 Nos. of SRs of capacities 40 KL, 20 KL, 20 KL
MK-7	Proposed Water Source	Proposed Diversion Spur at TirthanKhad
	WTPs	Construction of one WTP of 0.7 MLD capacity
	Pump houses	Construction of 2 Nos. of Pump houses at WTP Sidha and 2 nd Stage at Padhola
	MBR	Construction of 1 Nos of MBR of capacity 20 KL
	SR	Construction of 12 Nos.of SRs (3 nos. of 20 KL, 4 nos. of 25 KL, 4 nos. of 40 KL,1 nos of 45 KL, 50 and 110 KL each)
MK-9	Proposed Water Source	Proposed four head weir sources: <ul style="list-style-type: none"> • Diversion spur on Joan Khad • Head Weir on BhargolKhad • Head Weir on Shaun Nalla • Head Weir on Lohal Nalla
	WTPs	Construction of 4 Nos. of WTPs: <ul style="list-style-type: none"> • 0.9 MLD (Joan Khad) • 0.2MLD (Near BhargolKhad) • 35.44 KLD (near Existing SR Khadvi) • 93.29 KLD (near Lohal Nalla)
	Pump houses	Construction of 4 Nos. of PHs:

Grid No	Infrastructure	Description
		<ul style="list-style-type: none"> Near WTP Joan Khad, Near WTP BhargolKhad Near MBR1 Near sumpwell in ManjhaDesh
	MBR	Construction of 4 MBR of capacities 20KL, 20KL, 20KL and 60KL.
	SR	13 Nos SRs. (55KL, 20KL, 40KL, 30KL, 40KL, 25KL, 35KL, 20KL, 20KL, 50KL, 20KL, 20KL and 20KL)
MK-12	Proposed Water Source	Proposed two water sources: <ul style="list-style-type: none"> Diversion Spur at KurpanKhad Intake Chamber on Patagai Nallah
	WTPs	Construction of 2 WTPs: <ul style="list-style-type: none"> 1500 KLD (WTP Pujarilanj) 76.76 KLD (SSF Siswaser)
	Pump houses	Not Required as Grid MK-12 is Gravity Based
	MBR	Construction of 2 Nos. of MBRsof capacities 50 KL and 20 KL
	SR	Construction of 12 Nos. of SRs & 1 Sump well of capacities 30KL, 235KL, 30KL, 20 KL, 45 KL, 35 KL, 20 KL, 45 KL, 20 KL, 20 KL, 20 KL, 30 KL and 85 KL

Source: Preliminary Detailed Project Report, 2020-2021

Table 3: Existing Subproject Components proposed for Rehabilitation

Infrastructure	Details	Proposed Rehabilitation
Service Level Reservoirs	<p>The following existing structures are to be repaired / rehabilitated:</p> <p>Grid MK1 Existing SR Samalag – 10 KL Existing SR Mashna – 10 KL Existing SR Thach – 10 KL</p> <p>GRID MK2 Existing SR Padru – 15 KL Existing SR Padhar – 15 KL</p> <p>Grid MK7 Existing SR Dhandhar – 25 KL</p>	<ul style="list-style-type: none"> ▪ Retrofitting of existing Service Level Reservoirs including Boundary Wall and Approach Road ▪ Civil repairs, rehabilitation, and construction of replacement of pipes, connections, electrical and mechanicals parts as required ▪ Cleaning of OHT/SR
Transmission and Distribution Network	<p>Currently, there is about 91 km existing Gravity Mains and 355 km distribution network consists of GI pipes in water supply in all 6 grids of Packade 1 but its pipeline network is more than 25 years old and most of the existing pipes cannot be used in proposal as there condition is bad.</p> <p>Distribution network which consists of bulk water lines from SR to inhabited land parcels are under stress due to the increased water demand and to meet the low-pressure heads at household levels. Also, new land pockets have been inhabited within the command area which were earlier completely vacant lands, necessitating the need to replace the bulk water lines from SRs to villages to the farthest extent of the village or habitation.</p>	<p>In the entire project area, 450 km new water pipelines will be laid, and new house service connections will be provided from the newly laid main.</p> <p>Most of the existing pipelines shall be left buried as it is.</p> <p>If the existing water pipes are in the same lining of new water supply pipes, the contractor through a detailed survey will establish the requirement of old pipes removal for giving way to new pipelines.</p> <p>Those pipes shall be removed and disposed in a controlled manner.</p>

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 4 below.

Table 4: Proposed Metered Connection

Grid No.	Total Projected Population in 2022	Total number of Proposed Metered connections in 2022
MK-1	2934	587
MK-2	13195	2642
MK-6	2355	473
MK-7	6193	1241
MK-9	7236	1450
MK-12	9257	1854
Total	41170	8247

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 5: Number of Proposed Civil Structures in MZ01

Number of Civil structures						
Package	Grid no.	Intake	WTPs	Pump House	MBRs	SRs
MZ01	MK1	12	0	0	1	10
	MK2	6	6	6	6	22
	MK6	1	3	0	2	3
	MK7	1	1	2	1	12
	MK9	4	4	4	4	13
	MK12	2	2	0	2	12
Total		26	16	12	16	72

Source: Preliminary Detailed Project Report, 2020-21

20. As above table shows that there are about 26 new proposed intakes, 16 WTPs, 12 pump houses, 16 MBRs and 72 SRs that have been proposed under this package. The number of proposed intakes is more than the number of proposed WTPs, as water quality at some of the snow fed spring sources is good, as per BIS drinking water standards, and hence, there was no requirement or need to propose a treatment plant at that source. The grid wise detailed integrated plans¹ of the proposed components mentioned in the above table 5 are appended in Appendix 17. The detailed description of these civil structures is appended in Table 2.

21. Out of the twenty-six (26) proposed intake structures in MZ01, Nineteen (19) are RCC made intake chambers, four (4) are tubewell intakes and remaining three (3) are headweirs with rectangular channels. The details of the newly proposed weirs used in this package are appended in Table 10-1 of Appendix 10.

22. The water transmission mains proposed in this package are shown in the tables below:

¹ Detailed 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.

Table 6: Raw Water Transmission Main

Grid	Length of Pipe in Meter (Raw water transmission Main)						
	50 mm	65 mm	80 mm	100 mm	125 mm	150 mm	200 mm
MK-1	11489	3380	0	0	0	0	0
MK-2	88	4835	78	3660	0	0	0
MK-6	949	9365	0	0	0	0	0
MK-7	3305	3901	0	230	0	0	0
MK-9	1319	130	0	0	65	0	0
MK-12	0	2169	0	0	0	0	19873
Total Length	17150	23780	78	3890	65	0	19873

Source: Preliminary Detailed Project Report, 2020-21

Table 7: Clear Water Transmission Main

Grid	Length of Pipe in Meter (Clear water transmission Main)						
	50 mm	65 mm	80 mm	100 mm	125 mm	150 mm	200 mm
MK-1	0	0	0	0	0	0	0
MK-2	13844	12316	2510	3900	0	0	0
MK-6	3284	1178	0	0	0	0	0
MK-7	2139	16851	1022	0	4387	0	0
MK-9	7826	15363	0	3049	1357	0	0
MK-12	3582	14424	3339	0	3546	0	36
Total Length	30675	60132	6871	6949	9290	0	36

Source: Preliminary Detailed Project Report, 2020-21

Table 8: Distribution Network

Grid	Length of Pipe in Meter (Distribution network)								
	25 mm	32 mm	40 mm	50 mm	65mm	80 mm	100 mm	125 mm	150 mm
MK-1	2726	1365	2243	4748	2308	0	0	0	0
MK-2	1486	6282	18535	16056	17791	2236	594	315	200
MK-6	0	1531	3479	8211	11755	247	0	0	0
MK-7	0	0	3620	15878	29050	4314	0	0	0
MK-9	0	3768	21486	19188	16900	829	0	0	0
MK-12	0	2199	12954	19352	17194	833	180	733	0
Total Length	4212	15145	62317	83433	94998	8459	774	1048	200

Source: Preliminary Detailed Project Report, 2020-21

23. **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 ~65 KM and material of the pipe is MSERW in rising main and GI in gravity main. The diameter ranges are 50 mm to 200 mm.

24. **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 ~115 Km. The material of the pipe is GI. The diameter ranges are 50 to 200 mm.

25. **Distribution Mains** – The proposed distribution network to convey water from Service Reservoirs to habitations is about ~271 Km. The material of the pipe is GI. The diameter ranges are 25 mm to 150 mm.

26. **Sludge Disposal Mechanism:** The incoming raw water from sources will be treated through either Slow sand filters or Rapid Sand filters for the removal of 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. 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. Therefore, no additional land will be required for sludge disposal. 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.

27. **Rapid Sand Filter (RSF):** 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.

28. **Slow Sand Filter (SSF):** 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

29. Field visit, consultations and transect walks were carried out in the subproject area keeping in the COVID-19 precautionary measures. The field visits were carried out in November 2020 for MZ01 (District Kullu Package-3). 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 as appended in **Appendix 2**. 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. The details of public consultations are appended in **Appendix 3**.

30. 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.

31. Site inspections were carried out at the site locations of MZ01 (District Kullu Package-3) 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.

32. 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.

33. 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 9: 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

34. 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 10 below summarizes the land acquisition and involuntary resettlement impacts of the proposed subproject. No impacts on structures and livelihood are anticipated.

35. The components are proposed on available government lands and Eleven (11) components are on private land which will be obtained through Voluntary Land Donation. No land donation from any Vulnerable²/BPL³ 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.

³ The Planning Commission, Government of India, in its press note on Poverty Estimates, 2011-2012 and Reserve Bank of India, specifies rural poverty line of Himachal Pradesh to ₹913 per capita per month based on computation as per Tendulkar Method on Mixed Reference Period (MRP). The Rural poverty line in Himachal Pradesh has been adjusted to ₹1420 for June 2020-21 for an average inflation at 5.04% per annum.

Source: (i) [HTTP://LABOURBUREAUNEW.GOV.IN](http://labourbureau.gov.in). (ii) <https://www.ceicdata.com/en/india/consumer-price-index-agricultural-labourers-198687100-by-states/cpi-86p-agri-labourers-himachal-pradesh>

Table 10: 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	MK1	WSS Samalang	Proposed Intake Chamber	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTH on the proposed land. Thus, no temporary or permanent IR impact envisaged.
2	MK1	WSS Samalang	Proposed SR Samalang	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Samalang will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-titleholders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
3	MK1	WSS Phallan	Proposed Intake Suragmani	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTH on the proposed land. Thus, no temporary or

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
						t survey (DMS) ^a	permanent IR impact envisaged.
4	MK1	WSS Phallan	Proposed SR Phallan	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Phallan will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
5	MK1	WSS Dughilag	Proposed Intake Nayapani	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTH on the proposed land. Thus, no temporary or permanent IR impact envisaged.
6	MK1	WSS Dughilag	Proposed SR Shildhari	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Shildhari will be constructed on the available government land owned by the Forest Department. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							emergency use. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
7	MK1	WSS Dughilag	Proposed Intake Chamber Chhaya	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
8	MK1	WSS Dughilag	Proposed Intake Chamber Pawanag	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
9	MK1	WSS Dughilag	Proposed SR Dughilag	None	Unused Vacant Land	3 m wide and 20 m long	Proposed SR Dughilagwill be constructed on the available government land owned by the

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	Forest Department. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
10	MK1	WSS Mashna	Proposed Intake Thach Nallah-1	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Intake Chamber will be constructed on the available government land under the ownership of forest department. There is no permanent or temporary structure or non-title holders NTH on the proposed land. Thus, no temporary or permanent IR impact envisaged.
11	MK1	WSS Mashna	Proposed SR Shelmail	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Shelmail will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
							temporary or permanent IR impact is envisaged.
12	MK1	WSS Mashna	Proposed SR Mashegra	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Mashergawill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
13	MK1	WSS Mashna	Proposed Intake Chicham	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
14	MK1	WSS Mashna	Proposed Intake Mashna Nallah-1	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
						t survey (DMS) ^a	permanent IR impact envisaged.
15	MK1	WSS Mashna	Proposed Intake Mashna Nallah-2	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
16	MK1	WSS Mashna	Proposed MBR Gadashed	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Gadashed will be constructed on the available government land owned by the Forest Department. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
17	MK1	WSS Mashna	Proposed SR Shimlang	None	Unused Vacant Land	3 m wide and 20 m long	Proposed SR Shimlang will be constructed on the available government land owned by the

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	Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
18	MK1	WSS Mashna	Proposed SR Shertu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Shertu will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
19	MK1	WSS Mashna	Proposed SR Pankuti	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Pankuti will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
20	MK1	WSS Mashna	Proposed Intake Chamber Phala	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders

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	NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
21	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed Borewell Jhakru Gharat MohalKhad	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Borewell will be constructed on the available government land under the ownership of forest department. There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
22	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed Borewell Badah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Borewell will be constructed on the available government land under the ownership of forest department. There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
23	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed WTP (Slow Sand filter Jhakru Gharat MohalKhad)	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. The proposed WTP will be

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
							constructed next to the existing WTP. The existing WTP is owned by JSV and is proposed to be retained for emergency use. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
24	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed WTP Badah (Slow Sand Filter)	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 on the proposed land. No temporary or permanent IR impact is envisaged.
25	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed Pump House Near WTP Mohalkhad	None	Unused Vacant Land	Same campus as WTP	Proposed PH will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, Non-Titled Holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
26	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed Pump House Badah Near WTP	None	Unused Vacant Land	Same campus as WTP	Proposed PH will be constructed on the available government land owned by the

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
							Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
27	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed Pump House Bhrogi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed Pump house Bhrogi will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
28	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed MBR Bhrogi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Bhrogi will be constructed on the private Land Voluntary Donated by the Owner Mr. Shyam Chand. The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
29	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed SR Sarach	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Sarach will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
							temporary or permanent IR impact is envisaged
30	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed SR Badah	None	Unused Vacant Land	13 m wide and 20 m long bituminous road	Proposed SR Badah will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, Non-Titled Holders NTH on the proposed land. No temporary or permanent IR impact is envisaged
31	MK2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Proposed SR KoliBerh	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR KoliBerh will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged
32	MK2	WSS Seobagh	Proposed Borewell Seobagh	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Borewell will be constructed on the available on government land under the ownership of forest department. There is no permanent or temporary structure or non-title holders NTH 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
33	MK2	WSS Seobagh	Proposed WTP Seobagh	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 the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
34	MK2	WSS Seobagh	Proposed Pumping Station Seobagh Near WTP	None	Unused Vacant Land		
35	MK2	WSS Seobagh	Proposed MBR Seobagh	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Seobagh will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, Non-Titled Holders NTH on the proposed land. No temporary or permanent IR impact is envisaged
36	MK2	WSS Seobagh	Proposed SR Malhar	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Malhar will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH 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
37	MK2	WSS Seobagh	Proposed SR Hawai	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Hawai will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged
38	MK2	WSS Dharaghot	Proposed Intake Chamber Khuad Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
39	MK2	WSS Dharaghot	Proposed Intake Chamber Kais Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Intake Chamber will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon 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
40	MK2	WSS Dharaghot	Proposed WTP (Slow Sand filter Kot Dhar)	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-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
41	MK2	WSS Dharaghot	Proposed WTP (Slow Sand filter Ghot)	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-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
42	MK2	WSS Dharaghot	Proposed MBR Kot Dhar	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Kot Dhar will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
43	MK2	WSS Dharaghot	Proposed MBR Ghot	None	Unused Vacant Land	3 m wide and 20 m long	Proposed MBR Ghot will be constructed on the available government land owned by the

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	Forest Department. There is no permanent or temporary structure, non-titleholders NTHon the proposed land. No temporary or permanent IR impact is envisaged
44	MK2	WSS Dharaghot	Proposed SR Sour	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Sour will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged
45	MK2	WSS Dharaghot	Proposed SR Soil	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Soil will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged
46	MK2	WSS Dharaghot	Proposed SR Romani	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Romani will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
							temporary or permanent IR impact is envisaged
47	MK2	WSS ChachogaMalhar	Proposed SR Chachoga	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Chachogawill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged
48	MK2	WSS ChachogaMalhar	Proposed SR Banogi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Banogiwill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged
49	MK2	WSS ChachogaMalhar	Proposed SR Sharan Age	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Sharan Age will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon 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
50	MK2	WSS ChachogaMalhar	Proposed SR Tandla	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Tandla will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged
51	MK2	WSS ChachogaMalhar	Proposed SR Tandla-2	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Tandla-2 will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged
52	MK2	WSS Soul Sor Kararsu	Proposed Bore Well Bandrol	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Borewell will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTH 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
53	MK2	WSS Soul Sor Kararsu	Proposed WTP Bandrol	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
54	MK2	WSS Soul Sor Kararsu	Proposed Pumping Station Bandrol	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed PH will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
55	MK2	WSS Soul Sor Kararsu	Proposed Pumping Station Katai	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed PH will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							permanent IR impact envisaged.
56	MK2	WSS Soul Sor Kararsu	Proposed MBR Katai	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Katai will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
57	MK2	WSS Soul Sor Kararsu	Proposed MBR Manjdhari	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
58	MK2	WSS Soul Sor Kararsu	Proposed SR Kais	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Kais will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
59	MK2	WSS Soul Sor Kararsu	Proposed SR Bishtbehar(OHT -15M)	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
60	MK2	WSS Soul Sor Kararsu	Proposed SR Bhalogi-1	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Bhalogi-1 will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
61	MK2	WSS Soul Sor Kararsu	Proposed SR Chogin	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Choginwill be constructed on the available on government land under the ownership of forest department There is no

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
							permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
62	MK2	WSS Soul Sor Kararsu	Proposed SR Foshni	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Foshni will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
63	MK2	WSS Soul Sor Kararsu	Proposed SR Manjdhari	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Manjdhari will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
64	MK2	WSS Soul Sor Kararsu	Proposed SR Khararsu	None	Unused Vacant Land	3 m wide and 20 m long	Proposed SR Khararsu will be constructed on the available on government land under the

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	ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
65	MK2	WSS Soul Sor Kararsu	Proposed SR Kholtu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Kholtuwill be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
66	MK2	WSS Soul Sor Kararsu	Proposed SR Bhalogi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Bhalogiwill be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon 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
67	MK6	WSS NeenuJaishtha	Proposed Head wierRectangular channel	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Head wierRectangular channel will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
68	MK6	WSS NeenuJaishtha	Proposed Sump Well Sotak Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Sump Well Sotak Nallah will be constructed on the available on government land under the ownership of forest department There is no permanent or temporary structure or non-title holders NTHon the proposed land. Thus, no temporary or permanent IR impact envisaged.
69	MK6	WSS NeenuJaishtha	Proposed WTP (Slow Sand Filter)	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-title holders NTHon the proposed land. No

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							temporary or permanent IR impact is envisaged.
70	MK6	WSS NeenuJaishtha	Proposed MBR Jaishtha	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Jaishthawill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
71	MK6	WSS NeenuJaishtha	Proposed SR Neenu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Neenuwill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
72	MK6	WSS NeenuJaishtha	Proposed SR Jaishtha	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Jaishthawill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							NTHon the proposed land. No temporary or permanent IR impact is envisaged.
73	MK6	WSS NarolGarsaDhara	Proposed WTP (Slow Sand Filter) NautodNiul	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-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
74	MK6	WSS NarolGarsaDhara	Proposed WTP (Slow Sand Filter) at Naroul	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-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
75	MK6	WSS NarolGarsaDhara	Proposed MBR Naroul	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Naroul will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon 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
76	MK6	WSS NaroI Garsa Dhara	Proposed SR Nalashri	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Nalsari will be constructed on the private Land Voluntary Donated by the Owner Mr. Khem Chand. The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
77	MK7	WSS Sarchi Bandal Arkhali Phagwana	Proposed diversion spur at Khad source including Rectangular Channel at Tirthan Khad	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed head weir Rectangular Channel & sump well with raw water Pumps at Tirthan Khad will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
78	MK7	WSS Sarchi Bandal Arkhali Phagwana	Proposed Sump Well at Tirthan Khad to Proposed WTP	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Sump Well at Tirthan Khad to Proposed WTP will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH 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
79	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed WTP Shida	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP Shidawill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
80	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed Pump House Shida	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed PH Shidawill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
81	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed Sump well cum SR at Padhola	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed Sump well cum SR at Padholawill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
82	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed Pump House 2 nd Stage Padhola	None	Unused Vacant Land	3 m wide and 20 m long	Proposed Pump House 2 nd Stage Padholawill 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
						bituminous road	government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged
83	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed MBR Jauri	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR Jauri will be constructed on the private Land Voluntary Donated by the Owner Mr. Narayan The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
84	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Bihali	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Bihali will be constructed on the private Land Voluntary Donated by the Owner Mr. Gulab Chand. The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
85	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Pataula	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Pataula will be constructed on the private Land Voluntary Donated by the Owner Mr. Hira Lal. The Land is vacant and unused. 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
86	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Marour	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Marour will be constructed on the private Land Voluntary Donated by the Owner Mr. Yub Raj. The Land is vacant and unused. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. Thus, no temporary or permanent IR impact is envisaged.
87	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Sukaribir	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Sukaribir will be constructed on the private Land Voluntary Donated by the Owner Mr. Jeet ram. The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
88	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Chakurtha	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Chakurtha will be constructed on the private Land Voluntary Donated by the Owner Mr. Gian Chand. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. The Land is

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
							vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
89	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Bagadhar	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Bagadhar will be constructed on the private Land Voluntary Donated by the Owner Mr. Maydhar Sharma. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. The Land is vacant and unused. Thus, no temporary or permanent IR impact is envisaged.
90	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Jamala	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Jamalawill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
91	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Busari	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Busariwill be constructed on the available government land owned by the Forest Department. The proposed tank will be constructed next to the

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
92	MK7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Ruhan	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Ruahn will be constructed on the private Land Voluntary Donated by the Owner Mr. Mehar Chand. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. The land is unused and vacant. Thus, no temporary or permanent IR impact is envisaged.
93	MK7	WSS Thatibir, Targali&Manglore etc	Proposed SR Manglore	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Manglore will be constructed on the private Land Voluntary Donated by the Owner Mr. Khem Singh. The Land is vacant and unused. 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
94	MK7	WSS Seraj	Proposed SR Pattan	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Pattan will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
95	MK7	WSS Seraj	Proposed SR Barnaal	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Barnaal will be constructed on the available government land owned by the Forest Department. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. There is no permanent or temporary structure, Non-Titled Holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
96	MK9	WSS Khanag, WSS Nagot Palli, Parkot & Khadvi Kafti in Tehsil Anni Distt. Kullu	Proposed diversion spur at Joan Khad	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed	Proposed head weir Rectangular Channel & sump well at Joan Khad will be constructed on the available government land owned by the Forest Department. 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
						measurement survey (DMS) ^a	structure, Non-Titled Holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
97	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed WTP Joan Khad	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP and PH Joan Khad will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, Non-Titled Holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
98	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed Pump House near Proposed WTP Joan Khad	None	Unused Vacant Land		Proposed Pump House near Proposed Sumpwell cum SR will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
99	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed Pump House near Proposed Sumpwell cum SR in Village ManjhaDesh	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed sumpwell cum SR will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
100	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed Sumpwell cum SR in Village ManjhaDesh	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed sumpwell cum SR 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
							Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
101	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed Pump House Near MBR-1(OHT)	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed PH will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
102	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed MBR-1(OHT-10M)	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR-1 will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
103	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	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-title holders NTH on the proposed land. No

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
							temporary or permanent IR impact is envisaged.
104	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed MBR-3	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR-3 will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
105	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Kutwa-1	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Kutwa-1 will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
106	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Dhovi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Dhovi will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure non-title holders NTHon 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
107	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Dhagoot	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Dhagoot will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
108	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Paaja Bai	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Paaja Bai will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
109	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Kohila(OHT-15M)	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Kohila(OHT-15M) will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
110	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Juni Bag	None	Unused Vacant Land	3 m wide and 20 m long	Proposed SR Juni Bag will be constructed on the available government land owned by the

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	Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
111	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Mahogi(OHT-10M)	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Mahogi(OHT-10M) will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
112	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Mohvi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Mohvi will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
113	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Gagani	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Gagani will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							NTHon the proposed land. No temporary or permanent IR impact is envisaged.
114	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Shigagi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Shigagiwill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
115	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed head weir Rectangular Channel & sump at BhargodKhad	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed head weir Rectangular Channel & sump at BhargodKhadwill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
116	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed WTP Bharhod	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP and PH Bharhodwill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders
117	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed Pump House Bhargod	None	Unused Vacant Land		NTHon the proposed land. No

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							temporary or permanent IR impact is envisaged.
118	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed MBR-4	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR-4 will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
119	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR GSSS Khang	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR GSSS Khangwill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No temporary or permanent IR impact is envisaged.
120	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Tilara	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Tilarawill be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTHon the proposed land. No

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							temporary or permanent IR impact is envisaged.
121	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed head weir Rectangular Channel & sump at Lohal Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed head weir Rectangular Channel & sump at Lohal Nallah will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
122	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed WTP (Slow Sand Filter) at LohalRiuan	None	Unused Vacant Land	3 m wide and 50 m long bituminous road	Proposed WTP (Slow Sand Filter) at LohalRiuan will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
123	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Mithunu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Mithunu will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
							temporary or permanent IR impact is envisaged.
124	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed head weir Rectangular Channel & sump at Shoun Nallah	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed head weir Rectangular Channel & sump at Shoun Nallah will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
125	MK9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed WTP (Slow Sand Filter) at Near SR Khadvi	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-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
126	MK12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Proposed diversion spur on Kurpan Khad	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement	Proposed head weir Rectangular Channel & sump at Shoun Nallah will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/Permanent Impacts)	Present Use of Land	Access Road	Remarks
						t survey (DMS) ^a	temporary or permanent IR impact is envisaged.
127	MK12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Proposed Sumpwell at KurpanKhad	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed Sumpwell will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
128	MK12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Water Treatment Plant at Pujarilanj	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-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
129	MK12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Slow sand filter at Siswaser	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-title holders NTH 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
130	MK12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Proposed MBR Pujarilanj	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
131	MK12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Proposed MBR Mokutu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed MBR will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary or permanent IR impact is envisaged.
132	MK12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Proposed SR Nirmand	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Nirmand will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary
133	MK12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Proposed SR Sarkoti	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Sarkoti will be constructed on the available government land owned by the Forest Department. 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-title holders NTH on the proposed land. No temporary
134	MK12	WSS Koli, WSS ShanuJaterh,WSS Bail Dharopa,WSSRemuKedas,WSSChatti	Proposed SR Shishvi	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Shishvi will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary
135	MK12	WSS Koli, WSS ShanuJaterh,WSS Bail Dharopa,WSSRemuKedas,WSSChatti	Proposed SR Shanu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Shanu will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary
136	MK12	WSS Koli, WSS ShanuJaterh,WSS Bail Dharopa,WSSRemuKedas,WSSChatti	Proposed SR Marehri	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Marehri will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary
137	MK12	WSS Koli, WSS ShanuJaterh,WSS Bail Dharopa,WSSRemuKedas,WSSChatti	Proposed SR Remu	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Remu will be constructed on the available government land owned by the Forest Department. There is

SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary
138	MK12	WSS Koli, WSS ShanuJaterh,WSS Bail Dharopa,WSSRemuKedas,WSSChatti	Proposed SR Kedas	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Kedas will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary
139	MK12	WSS Koli, WSS ShanuJaterh,WSS Bail Dharopa,WSSRemuKedas,WSSChatti	Proposed SR Bail	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Bail will be constructed on the available government land owned by the Forest Department. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary
140	MK12	WSS Koli, WSS ShanuJaterh,WSS Bail Dharopa,WSSRemuKedas,WSSChatti	Proposed SR Pokhni	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Pokhni will be constructed on the available government land owned by the Forest Department. 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-title holders NTH on the proposed land. No temporary
141	MK12	WSS Koli, WSS ShanuJaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Proposed SR Achwa	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Achwa will be constructed on the available government land owned by the Forest Department. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary
142	MK12	WSS Koli, WSS ShanuJaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Proposed SR Chhotu	None	Unused Vacant Land	1-2 m kaccha pathway. It will be assessed and finalized during Detailed measurement survey (DMS) ^a	Proposed SR Chhotu will be constructed on the available government land owned by the Forest Department. The proposed tank will be constructed next to the existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary
143	MK12	WSS Koli, WSS ShanuJaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Proposed SR Koli	None	Unused Vacant Land	3 m wide and 20 m long bituminous road	Proposed SR Koli will be constructed on the available government land owned by the Forest Department. The proposed tank will be constructed next to the

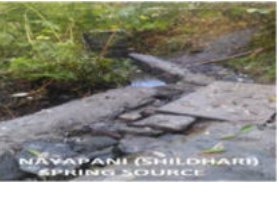



SN.	Grid	Scheme Name	Name of the Components	Land Acquisition & Involuntary Resettlement Impacts (Temporary/ Permanent Impacts)	Present Use of Land	Access Road	Remarks
							existing tank. The existing tank is owned by JSV and is proposed to be retained for emergency use. There is no permanent or temporary structure, non-title holders NTH on the proposed land. No temporary

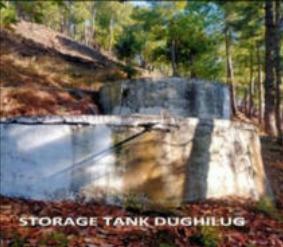
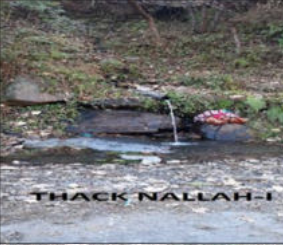


Source: Site Visits, Transect walks, sample survey, DPRs, technical documents and analysis.





^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 11: Details of land availability, ownership, description of surrounding areas, present land Use and status of No Objection Certificate (NOC) for sites




S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
1	MK-1	WSS Samalang	Proposed Intake Chamber	Teun	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
2	MK-1	WSS Samalang	Proposed SR Samalang	Teun	Forest Land	55000000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
3	MK-1	WSS Phallan	Proposed Intake Suragmani	Phallan	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
4	MK-1	WSS Phallan	Proposed SR Phallan	Phallan	Forest Land	55000000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	





S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
5	MK-1	WSS Dughilag	Proposed Intake Nayapani	Nayapani	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
6	MK-1	WSS Dughilag	Proposed SR Shildhari	Dughilag	Forest Land	55000000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
7	MK-1	WSS Dughilag	Proposed Intake Chamber Chhaya	Chhaya Pani	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
8	MK-1	WSS Dughilag	Proposed Intake Chamber Pawanag	Pawanag	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	



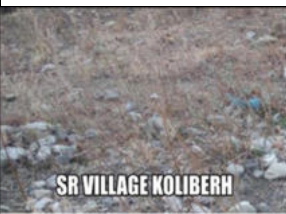
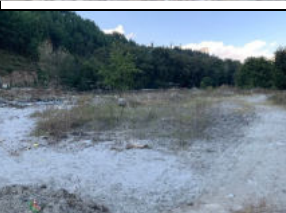
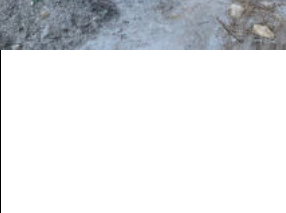
S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
9	MK-1	WSS Dughilag	Proposed SR Dughilag	Dughilag	Forest Land	55000000	81	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	 STORAGE TANK DUGHILUG
10	MK-1	WSS Mashna	Proposed Intake Thach Nallah-1	Mashna	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	 THACK NALLAH-I
11	MK-1	WSS Mashna	Proposed SR Shelmail	Mashna	Forest Land	55000000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	 Shelmail
12	MK-1	WSS Mashna	Proposed SR Mashegra	Mashna	Forest Land	55000000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	



S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
13	MK-1	WSS Mashna	Proposed Intake Chicham	Mashna	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
14	MK-1	WSS Mashna	Proposed Intake Mashna Nallah-1	Mashna	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
15	MK-1	WSS Mashna	Proposed Intake Mashna Nallah-2	Mashna	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
16	MK-1	WSS Mashna	Proposed MBR Gadeshed	Mashna	Forest Land	55000000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	




S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
17	MK-1	WSS Mashna	Proposed SR Shamlang	Mashna	Forest Land	55000000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
18	MK-1	WSS Mashna	Proposed SR Shertu	Mashna	Forest Land	55000000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
19	MK-1	WSS Mashna	Proposed SR Pankuti	Mashna	Forest Land	55000000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
20	MK-1	WSS Mashna	Proposed Intake Chamber Phala	Mashna	Forest Land	55000000	16	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4943/2020 for land transfer to JSV is appended in Appendix 4(a).	
21	MK-2	WSS Sarach, Kolibe har, Badah&K halyaniPadhar	Proposed Bore well Jhakru Gharat MohalKhad	Mohal	Forest Land	5500000	24	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to	

S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
									JSV is appended in Appendix 4(a).	
22	MK-2	WSS Sarach, Kolibehar, Badah & Kalyani Padhar	Proposed Borewell Badah	Badah	Forest Land	5500000	24	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
23	MK-2	WSS Sarach, Kolibehar, Badah & Kalyani Padhar	Proposed WTP (Slow Sand filter Jhakru Gharat Mohal Khad)	Mohal	Forest Land	5500000	680	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	
24	MK-2	WSS Sarach, Kolibehar, Badah & Kalyani Padhar	Proposed WTP Badah (Slow Sand Filter)	Badah	Forest Land	5500000	1080	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and	





S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
									google earth imagery	
25	MK-2	WSS Sarach,Kolibe har,Badah&K halyaniPadhar	Proposed Pump House Near WTP Mohalkhad	Mohal	Forest Land	5500000	48	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
26	MK-2	WSS Sarach,Kolibe har,Badah&K halyaniPadhar	Proposed Pump House Badah Near WTP	Badah	Forest Land	5500000	48	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
27	MK-2	WSS Sarach,Kolibe har,Badah&K halyaniPadhar	Proposed Pump House Bhrogi	Bhrogi	Forest Land	5500000	48	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
28	MK-2	WSS Sarach,Kolibe har,Badah&K halyaniPadhar	Proposed MBR Bhrogi	Bhrogi	ForestLand	5500000	64	Tukda No- 1*	Refer Appendix 5 for Land records/ NOCs	





S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
29	MK-2	WSS Sarach, Kolibehar, Badah & Kalyani Padhar	Proposed SR Sarach	Sarach	Forest Land	5500000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR VILLAGE SARACH
30	MK-2	WSS Sarach, Kolibehar, Badah & Kalyani Padhar	Proposed SR Badah	Badah	Forest Land	5500000	169	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR Badah
31	MK-2	WSS Sarach, Kolibehar, Badah & Kalyani Padhar	Proposed SR KoliBerh	Koliberh	Forest Land	5500000	64	Tukda No- 1*	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR VILLAGE KOLIBERH
32	MK-2	WSS Seobagh	Proposed Bore well Seobagh	Kais	Forest Land	2134	24	5	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
33	MK-2	WSS Seobagh	Proposed WTP Seobagh	Kais	Forest Land	2134	900	5	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	




S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
									Refer Appendix 6 for revenue records, khasra map records and google earth imagery	
34	MK-2	WSS Seobagh	Proposed Pumping Station Seobagh Near WTP	Kais	Forest Land	2134	48	5	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
35	MK-2	WSS Seobagh	Proposed MBR Seobagh	Kais	Forest Land	1150	100	861	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
36	MK-2	WSS Seobagh	Proposed SR Malhar	Kais	Forest Land	2134	64	307	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
37	MK-2	WSS Seobagh	Proposed SR Hawaii	Kais	Forest Land	587	64	608	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
38	MK-2	WSS Dharaghot	Proposed Intake Chamber Khuad Nallah	Kais	Forest Land	1554	16	1	FCA Application no. FP/HP/Water/11 4946/2020 for	





S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
39	MK-2	WSS Dharaghot	Proposed Intake Chamber Kais Nallah	Kais Nallah	Forest Land	1554	16	1	land transfer to JSV is appended in Appendix 4(a).	
40	MK-2	WSS Dharaghot	Proposed WTP (Kot Dhar)	Kais	Forest Land	800	680	507	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	
41	MK-2	WSS Dharaghot	Proposed WTP (Slow Sand filter Ghot)	Kais	Forest Land	1231	600	692	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	





S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
42	MK-2	WSS Dharaghot	Proposed MBR Kot Dhar	Kais	Forest Land	423	81	507	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	A photograph showing a steep, rocky slope with patches of snow and some sparse vegetation. The area is identified as the proposed WTP (Slow Sand Filter) and MBR Kotadhar.
43	MK-2	WSS Dharaghot	Proposed MBR Ghot	Kais	Forest Land	1231	64	692	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	A photograph showing a rocky, snow-dusted slope with some sparse vegetation. The area is identified as the proposed MBR Ghot, Sour Ghot, and SR Ghot.
44	MK-2	WSS Dharaghot	Proposed SR Sour	Kais	Forest Land	939	64	287	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	A photograph showing a steep, rocky slope with sparse vegetation. The area is identified as the proposed SR Sour.
45	MK-2	WSS Dharaghot	Proposed SR Soil	Kais	Forest Land	2521	81	814	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	A photograph showing a steep, rocky slope with sparse vegetation. The area is identified as the proposed SR Soil.

S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
46	MK-2	WSS Dharaghot	Proposed SR Romani	Kais	Forest Land	810	81	668	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
47	MK-2	WSS ChachogaMalhar	Proposed SR Chachoga	Kais	Forest Land	2246	64	365	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
48	MK-2	WSS ChachogaMalhar	Proposed SR Banogi	Kais	Forest Land	3620	64	253	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
49	MK-2	WSS ChachogaMalhar	Proposed SR Sharan Age	Kais	Forest Land	526	64	286	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	




S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
50	MK-2	WSS ChachogaMalhar	Proposed SR Tandla	Kais	Forest Land	3378	64	584	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
51	MK-2	WSS ChachogaMalhar	Proposed SR Tandla-2	Kais	Forest Land	1087	64	564	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
52	MK-2	WSS Soul Sor Kararsu	Proposed Bore Well Bandrol	Kais	Forest Land	4558	24	3	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
53	MK-2	WSS Soul Sor Kararsu	Proposed WTP Bandrol	Kais	Forest Land	4558	960	3	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and	




S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
									google earth imagery	
54	MK-2	WSS Soul Sor Kararsu	Proposed Pumping Station Bandrol	Kais	Forest Land	4558	48	3	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
55	MK-2	WSS Soul Sor Kararsu	Proposed Pumping Station Katai	Kais	Forest Land	2483	48	135	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
56	MK-2	WSS Soul Sor Kararsu	Proposed MBR Katai	Kais	Forest Land	2483	64	135	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	




S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
57	MK-2	WSS Soul Sor Kararsu	Proposed MBR Manjhdhari	Kais	Forest Land	8741	64	196	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
58	MK-2	WSS Soul Sor Kararsu	Proposed SR Kais	Kais	Forest Land	1743	81	944	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
59	MK-2	WSS Soul Sor Kararsu	Proposed SR Bishtbehar(O HT-15M)	Kais	Forest Land	2483	81	1357	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	
60	MK-2	WSS Soul Sor Kararsu	Proposed SR Bhalogi-1	Kais	Forest Land	3160	64	170	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	


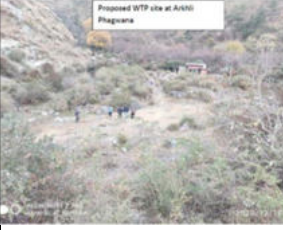

S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
61	MK-2	WSS Soul Sor Kararsu	Proposed SR Chogin	Kais	Forest Land	2502	64	228	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a rocky, cleared area of land. A red text label "Proposed SR Chogin" is overlaid at the bottom of the image.
62	MK-2	WSS Soul Sor Kararsu	Proposed SR Foshni	Kais	Forest Land	6142	64	643	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph of a hilly, rocky terrain with sparse vegetation. A red text label "Proposed SR Foshni" is overlaid at the bottom of the image.
63	MK-2	WSS Soul Sor Kararsu	Proposed SR Manjdhari	Kais	Forest Land	2556	64	22	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a wooded area with several trees. A red text label "Proposed SR Manjdhari" is overlaid at the bottom of the image.
64	MK-2	WSS Soul Sor Kararsu	Proposed SR Khararsu	Kais	Forest Land	5424	64	349	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	 A wide-angle photograph of a large, cleared, hilly area of land. A red text label "Proposed SR Khararsu" is overlaid at the bottom of the image.





S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
65	MK-2	WSS Soul Sor Kararsu	Proposed SR Kholtu	Kais	Forest Land	279	64	299	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	 Proposed SR Kholtu
66	MK-2	WSS Soul Sor Kararsu	Proposed SR Bhalogi	Kais	Forest Land	3797	64	222	FCA Application no. FP/HP/Water/11 4946/2020 for land transfer to JSV is appended in Appendix 4(a).	 Proposed SR Bhalogi
67	MK-6	WSS NeenuJaishtha	Proposed Head wier Rectangular channel	Sotak Nallah	Forest Land	290000000	20	Tukda-1	FCA Application no. FP/HP/Water/11 4934/2020 for land transfer to JSV is appended in Appendix 4(a).	 Proposed Head wier Rectangular channel
68	MK-6	WSS NeenuJaishtha	Proposed Sump Well Sotak Nallah	Sotak Nallah	Forest Land	290000000	12	Tukda-1	FCA Application no. FP/HP/Water/11 4934/2020 for land transfer to JSV is appended in Appendix 4(a).	 Sump well Sotak Nallah





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69	MK-6	WSS NeenuJaishtha	Proposed WTP (Slow Sand Filter)	Parli	Forest Land	290000000	485	Tukda-1	FCA Application no. FP/HP/Water/11 4934/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	
70	MK-6	WSS NeenuJaishtha	Proposed MBR Jaishtha	Parli	Forest Land	290000000	64	Tukda-1	FCA Application no. FP/HP/Water/11 4934/2020 for land transfer to JSV is appended in Appendix 4(a).	
71	MK-6	WSS NeenuJaishtha	Proposed SR Neenu	Parli	Forest Land	290000000	64	Tukda-1	FCA Application no. FP/HP/Water/11 4934/2020 for land transfer to JSV is appended in Appendix 4(a).	





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72	MK-6	WSS NeenuJaishtha	Proposed SR Jaishtha	Parli	Forest Land	290000000	81	Tukda-1	FCA Application no. FP/HP/Water/11 4934/2020 for land transfer to JSV is appended in Appendix 4(a).	
73	MK-6	WSS NarolGarsaDhara	Proposed WTP (Slow Sand Filter) NautodNiul	Bhallan	Forest Land	290000000	400	Tukda-1	FCA Application no. FP/HP/Water/11 4934/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	
74	MK-6	WSS NarolGarsaDhara	Proposed WTP (Slow Sand Filter) at Naroul	Bhallan	Forest Land	290000000	485	Tukda-1	FCA Application no. FP/HP/Water/11 4934/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and	



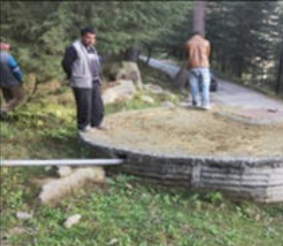

S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
									google earth imagery	
75	MK-6	WSS NarolGarsaDhara	Proposed MBR Naroul	Bhallan	Forest Land	290000000	81	Tukda-1	FCA Application no. FP/HP/Water/11 4934/2020 for land transfer to JSV is appended in Appendix 4(a).	 (forest land daduaagy) Narol Garsa Dhara
76	MK-6	WSS NarolGarsaDhara	Proposed SR Nalashri	Bhallan	Private Land	290000000	64	Tukda-1	Refer Appendix 5 for Land records/ NOCs	 site-A 2nd month (Garsa)
77	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed Diversion spur at Tirthan Khad	Ratwah	Forest Land	290000000	20	Tukda-1	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a).	




S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
78	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed Sump Well at TirthanKhad to Proposed WTP	Ratwah	Forest land	290000000	12	Tukda No-1 near Khasra No-176, 177	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a).	
79	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed WTP Shida	Ratwah	Forest land	290000000	2230	Tukda-1	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	
80	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed Pump House Shida	Ratwah	Forest land	290000000	48	Tukda-1	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a).	





S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
81	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed Sump well cum SR at Padhola	Chakurtha	Forest land	290000000	100	Tukda-1	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a dry, hilly landscape with sparse vegetation. A small structure is visible in the distance. The text "Sump House At Padhola" is overlaid in green at the bottom.
82	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed Pump House 2 nd Stage Padhola	Chakurtha	Forest land	290000000	48	Tukda-1	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a hilly area with some trees and a small structure. The text "Proposed PPH at 2nd Stage Padhola" is overlaid in white at the top.
83	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed MBR Jauri	Chakurtha	Private land	290000000	64	Tukda-1	Refer Appendix 5 for Land records/ NOCs	 A photograph showing a dry, hilly landscape with sparse vegetation. The text "Jauri" is overlaid in white at the top.
84	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed SR Bihali	Bihali	Private land	290000000	64	Tukda-1	Refer Appendix 5 for Land records/ NOCs	 A photograph showing a dry, hilly landscape with sparse vegetation. The text "SR Bihali" is overlaid in red at the bottom.





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85	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed SR Pataula	Thati Bir	Private land	290000000	64	Tukda-1	Refer Appendix 5 for Land records/ NOCs	
86	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed SR Marour	Thati Bir	Private land	290000000	64	Tukda-1	Refer Appendix 5 for Land records/ NOCs	
87	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed SR Sukaribir	Thati Bir	Private land	290000000	81	Tukda-1	Refer Appendix 5 for Land records/ NOCs	
88	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed SR Chakurtha	Chakurtha	Private land	290000000	64	Tukda-1	Refer Appendix 5 for Land records/ NOCs	





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89	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed SR Bagadhar	Chakurtha	Private land	290000000	81	Tukda-1	Refer Appendix 5 for Land records/ NOCs	
90	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed SR Jamala	Sarachi	Forest land	290000000	81	Tukda-1	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a).	
91	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed SR Busari	Sarachi	Forest land	290000000	81	Tukda-1	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a).	
92	MK-7	WSS SarchiBandal ArkhaliPhagwana	Proposed SR Ruhan	Chakurtha	Private land	290000000	64	Tukda-1	Refer Appendix 5 for Land records/ NOCs	





S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
93	MK-7	WSS Thatibir, Targali&Manglore etc	Proposed SR Manglore	Ratwah	Private land	290000000	64	Tukda-1	Refer Appendix 5 for Land records/ NOCs	
94	MK-7	WSS Seraj	Proposed SR Pattan	Seeraj	Forest land	290000000	64	Tukda No-1 near Khasra No-106	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a).	
95	MK-7	WSS Seraj	Proposed SR Barnaal	Seeraj	Forest land	290000000	81	Tukda No-1 near Khasra No-2069	FCA Application no. FP/HP/Water/11 4930/2020 for land transfer to JSV is appended in Appendix 4(a).	
96	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed diversion spur at Joan Khad	Kohila	Forest Land	80	25	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	





S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
97	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed WTP Joan Khad	Kohila	Forest Land	3500	2670	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	 head wear' WTP pump house at Jaon khad
98	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed Pump House near Proposed WTP Joan Khad	Kohila	Forest Land	80	63.15	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	 head wear' WTP pump house at Jaon khad
99	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed Pump House near Proposed Sum pwell cum SR in Village ManjhaDesh	ManjhaDesh	Forest Land	110	48	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	 pump house, sump well in village manjadesh
100	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil			Forest Land	130	81	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to	




S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
		Anni Distt. Kullu							JSV is appended in Appendix 4(a).	
101	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed Pump House Near MBR-1(OHT)	Kohila	Forest Land	160	48	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	
102	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed MBR-1(OHT-10M)	Kohila	Forest Land	180	81	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	
103	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed MBR-2	Kohila	Forest Land	90	64	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	
104	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed MBR-3	ManjhaD esh	Forest Land	100	64	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	





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105	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Kutwa-1	ManjhaDesh	Forest Land	90	64	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR Kutwa-1
106	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Dhovi	ManjhaDesh	Forest Land	105	64	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR Dhovi
107	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Dhagoot	ManjhaDesh	Forest Land	120	64	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR Dhagoot
108	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Paaja Bai	Kohila	Forest Land	80	64	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR Paaja Bai






S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
109	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Kohila(OHT-15M)	Kohila	Forest Land	130	81	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	
110	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Juni Bag	Kohila	Forest Land	85	64	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	
111	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Mahogi(OHT-10M)	Khani	Forest Land	160	81	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	
112	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Mohvi	Khani	Forest Land	120	81	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	






S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
113	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed SR Gagani	Khani	Forest Land	80	64	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR Gagani
114	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed SR Shigagi	Khani	Forest Land	110	81	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR SHIGAGI
115	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed head weir Rectangular Channel & sump at BhargodKhad	Lajheri	Forest Land	60	30	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	 head wear sump & WTP at Bhargod khad
116	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed WTP Bharhod	Lajheri	Forest Land	1300	870	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	



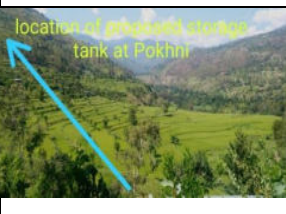


S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
117	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed Pump House Bhargod	Lajheri	Forest Land	100	48	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a).	 pump house At Bhargod khad
118	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed MBR-4	Khanag	Forest Land	85	64	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a).	 MBR 4
119	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR GSSS Khang	Lajheri	Forest Land	100	64	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR GSSS Khang
120	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed SR Tilara	Lajheri	Forest Land	100	81	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a).	 SR Tilara


S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
12 1	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed head weir Rectangular Channel & sump at Lohal Nallah	Lajheri	Forest Land	40	20	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a rocky, sloping terrain with sparse vegetation. A red arrow points to a specific area on the slope. The text 'head weir at Lohal Riuan' is overlaid in green.
12 2	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed WTP (Slow Sand Filter) at LohalRiuan	Lajheri	Forest Land	600	485	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	 A photograph showing a rocky, sloping terrain with sparse vegetation. A red arrow points to a specific area on the slope. The text 'head weir at Lohal Riuan' is overlaid in green.
12 3	MK-9	WSS Khanag, WSS NagotPalli, Parkot&Khadv iKafti in Tehsil Anni Distt. Kullu	Proposed SR Mithunu	Lajheri	Forest Land	80	64	Tukda-1*	FCA Application no. FP/HP/Water/11 4815/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a rocky, sloping terrain with sparse vegetation. The text 'mithnu' is overlaid in black, and 'SR Mithnu' is overlaid in green.

S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
124	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed head weir Rectangular Channel & sump at Shoun Nallah	Shaun Nallah	Forest Land	40	20	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a).	 Head wear at Shoun nallah
125	MK-9	WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt. Kullu	Proposed WTP (Slow Sand Filter) at Near SR Khadvi	Buchhar	Forest Land	410	380	Tukda-1*	FCA Application no. FP/HP/Water/114815/2020 for land transfer to JSV is appended in Appendix 4(a). Refer Appendix 6 for revenue records, khasra map records and google earth imagery	 WTP Near SR Khadvi
126	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed diversion spur on Kurpan Khad	KurpanKhad	Forest Land	50	30	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	 proposed site for Headweir with channel and sumpwell MK12
127	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed Sumpwell at KurpanKhad	KurpanKhad	Forest Land	85	12	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	 proposed site for Headweir with channel and sumpwell MK12

S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
128	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Water Treatment Plant at Pujarilanj	Remu	Forest Land	4800	4300	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	
129	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	WTP at Siswaser	Chhati	Forest Land	520	485	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	
130	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed MBR Pujarilanj	Remu	Forest Land	95	81	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	
131	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed MBR Mokutu	Remu	Forest Land	80	64	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	
132	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Nirmand	Nirmand	Forest Land	100	81	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	

S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
133	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Sarkoti	Sarkoti	Forest Land	190	169	Tukda-1*	FCA Application no. FP/HP/Water/11 4824/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a dry, hilly landscape with sparse vegetation. A yellow text overlay at the top reads "Proposed SR sarkoti".
134	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Shishvi	Nirmand	Forest Land	90	81	Tukda-1*	FCA Application no. FP/HP/Water/11 4824/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a rocky, dry landscape with sparse vegetation. A red text overlay at the top reads "Proposed SR Shishvi".
135	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Shanu	Shanu	Forest Land	90	64	Tukda-1*	FCA Application no. FP/HP/Water/11 4824/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a dry, hilly landscape with sparse vegetation. A green text overlay at the top reads "proposed SR shanu".
136	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Marehri	Marehri	Forest Land	90	81	Tukda-1*	FCA Application no. FP/HP/Water/11 4824/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a dry, hilly landscape with sparse vegetation. A blue text overlay at the top reads "Proposed SR Marhri".
137	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Remu	Remu	Forest Land	80	64	Tukda-1*	FCA Application no. FP/HP/Water/11 4824/2020 for land transfer to JSV is appended in Appendix 4(a).	 A photograph showing a dry, hilly landscape with sparse vegetation. A green text overlay at the top reads "Proposed SR Remu".

S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
138	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Kedas	Remu	Forest Land	80	64	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	
139	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Bail	Bailal	Forest Land	90	81	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	
140	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Pokhni	Gadej	Forest Land	80	64	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	
141	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Achwa	Gadej	Forest Land	80	64	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	
142	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Chhotu	Gadej	Forest Land	90	64	Tukda-1*	FCA Application no. FP/HP/Water/114824/2020 for land transfer to JSV is appended in Appendix 4(a).	

S N.	Grid	Scheme Name	Project Component	Location/ Village	Ownership	Area of land available at the location (m ²)	Area 64equir e (m ²)	Khasra No.	Remarks	Photo of Land
143	MK-12	WSS Koli, WSS ShanuJaterh, WSS Bail Dharopa, WSS RemuKedas, WSSChatti	Proposed SR Koli	Gadej	Forest Land	105	81	Tukda-1*	FCA Application no. FP/HP/Water/11 4824/2020 for land transfer to JSV is appended in Appendix 4(a).	

*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. The letter certifying the same is attached below.

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

MK-1

Date: 11th October 2021

To Whomsoever It May Concern


The Land for the proposed components in MZ01 (Mandi Zone Package 3 Kullu District), Himachal Pradesh Rural Drinking Water Improvement Project, as mentioned in table 1 belong to Forest department.

The revenue records are not available with the Revenue Department as no land settlement or marking has been done for proposed land parcels mentioned in table 1. Therefore, we are certifying through this letter that the required land areas for proposed rural water supply component are available.

Table 1

SN.	Grid	Scheme Name	Project Component	Name of Forest area	Location/ Village	Area required (m ²)
1	MK-1	WSS Samalang	Proposed Intake Chamber	Tiun - III	Teun	16
2	MK-1	WSS Samalang	Proposed SR Samalang	Tiun - III	Teun	64
3	MK-1	WSS Phallan	Proposed Intake Suraggmani	Dugilag- III	Phallan	16
4	MK-1	WSS Phallan	Proposed SR Phallan	Dugilag- III	Phallan	64
5	MK-1	WSS Dughilag	Proposed Intake Nayapani	Dugilag- III	Nayapani	16
6	MK-1	WSS Dughilag	Proposed Intake Chamber Chhaya	Dugilag- III	Chhaya Pani	16
7	MK-1	WSS Dughilag	Proposed Intake Chamber Pawanag	Dugilag- III	Pawanag	16
8	MK-1	WSS Mashna	Proposed Intake Thach Nallah-1	Samana-III	Mashna	16
9	MK-1	WSS Mashna	Proposed SR Shelmail	Samana-III	Mashna	64
10	MK-1	WSS Mashna	Proposed SR Mashegra	Samana-III	Mashna	64
11	MK-1	WSS Mashna	Proposed Intake Chicham	Samana-III	Mashna	16
12	MK-1	WSS Mashna	Proposed Intake Mashna Nallah-1	Samana-III	Mashna	16
13	MK-1	WSS Mashna	Proposed Intake Mashna Nallah-2	Samana-III	Mashna	16
14	MK-1	WSS Mashna	Proposed MBR Gadeshed	Samana-III	Mashna	64
15	MK-1	WSS Mashna	Proposed SR Shamlang	Samana-III	Mashna	64

SN.	Grid	Scheme Name	Project Component	Name of Forest area	Location/ Village	Area required (m ²)
16	MK-1	WSS Mashna	Proposed SR Shertu	Samana-III	Mashna	64
17	MK-1	WSS Mashna	Proposed SR Pankuti	Samana-III	Mashna	64
18	MK-1	WSS Mashna	Proposed Intake Chamber Phala	Samana-III	Mashna	16


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MK-9

To Whom it May concern

The land for the proposed components in MK09 (Mandi Zone Kullu Distt Himachal Pradesh) Rural Drinking Water Improvement Project, as mentioned in table below, belongs to Forest Department. The revenue records of this land are not available with the revenue department as no land settlement or marking has been done for the proposed land parcels as mentioned in the table below. Therefore, it is certified that the required land area for proposed rural water supply components is available

Grid	Name of Scheme	Project Component	Name of Forest Area	Location/Village	Area Required (in Sqr mtr)		
MK9	WSS Khanag, WSS Nagot Palli, Parkot & Khadvi Kafti in Tehsil Anni Distt Kullu	Proposed head weir Rectangular Channel & sump well at Joan Khad	UPF KUTWA C-176	Near village Kakar thach	165		
		Proposed WTP Joan Khad	UPF KUTWA C-176	Near village Kakar thach	2670		
		Proposed Pump House near Proposed WTP Joan Khad	UPF KUTWA C-176	Near village Kakar thach	63.15		
		Proposed Pump House near Proposed Sumpwell cum SR in Village Manjha Desh	UPF KUTWA C-157	Near Village Dhar	48		
		SR cum Delivery Tank	UPF KUTWA C-157	Near village Lal Jogni	81		
		Proposed Pump House Near MBR-1(OHT)	UPF KUTWA C-176	Near GSS School Jater	48		
		Proposed MBR-1(OHT-10M)	UPF KUTWA C-176	Near GSS School Jater	81		
		Proposed MBR-2	UPF KUTWA C-176	Near Village Thua	64		
		Proposed MBR-3	UPF KUTWA C-176	Near Village Thua	64		
		Proposed SR Kutwa-1	DPF 1/27 BUNG	Near Village Kutwa	64		
		Proposed SR Dhovi	DPF 1/27 BUNG	Village Dohvi	64		
		Proposed SR Dhagoot	DPF 1/27 BUNG	village Daghoot	64		
		Proposed SR Paaja Bai	UPF SHILTHI C177	Near village Sarali	64		
		Proposed SR Kohila(OHT-15M)	UPF KUTWA C-176	Near village Nagot	81		
		Proposed SR Juni Bag	UPF SHILTHI C177	Near village Parkot	64		
		Proposed SR Mahogi(OHT-10M)	UPF MATHENA C170	Near village Mohvi	81		
		Proposed SR Mohvi	UPF MATHENA C170	Near village Mohvi	81		
		Proposed SR Gagani	UPF GAGNI C171	Near village Gagni	64		
		Proposed SR Shigagi	UPF SHAGAGI C.172	Near village Shigagi	81		
		Proposed head weir Rectangular Channel & sump at Bhargod Khad	UPF ROPA C-149	Near village Bhargol	150		
		Proposed WTP Bharhod	UPF ROPA C-149	Near village Bhargol	870		
		Proposed Pump House Bhargod	UPF ROPA C-149	Near village Bhargol	48		
		Proposed MBR-4	UPF ROPA C-149	Near Village Dagsari	64		
		Proposed SR GSSS Khanag	UPF ROPA C-149	Near GSSS Khanag	64		
		Proposed SR Tilara	UPF ROPA C-149	Near Village Tiara	81		
		Proposed head weir Rectangular Channel & sump at Lohal Nallah	UPF ROPA C-149	Near Village Lohal	70		
		Proposed WTP (Slow Sand Filter) at Lohal Ruan	UPF ROPA C-149	Near Village Lohal	485		
		Proposed SR Mithunu	UPF ROPA C-149	Near Village Mithnu	64		
		Proposed head weir Rectangular Channel & sump at Shoun Nallah	UPF KHADVI C-158	Near Village Khadvi	105		
		Proposed WTP (Slow Sand Filter) at Near SR Khadvi	UPF KHADVI C-158	Near Village Khadvi	380		
						Total Area	6373.15
							= 0.6373 Hect

Assistant Engineer
Jal Shakti Sub Division Anni
Anni, Distt. Kullu (H. P)

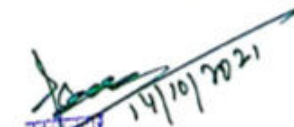
Tehsildar
11/10/21
Tehsil Anni, Distt Kullu
Naib Tehsildar
Anni Distt. Kullu (H.P.)

MK-12

To Whomever it may concern

The land for the proposed component in MK 12 Mandi Zone Package 3 Kullu District , Himachal Pradesh Rural drinking water Improvement project , as mentioned in table 1 belong to Jal Shakti Department .
The revenue records are not available with the Revenue department as no settlement or marking has been done for proposed land parcels mentioned in table 1. Therefore we are certifying through this letter that the required land areas for proposed rural water supply components are available.

S.No.	Grid	Scheme Name	Project Component	Name of Forest Area	Location / Village	Area Required m ²
1	Mk-12	WSS Koli, WSS Shanu Jaterh, WSS Bail Dharopa, WSS Remu Kedas, WSS Chatti	Proposed Head Weir with Rectangular channel	UPF - Jimna Dogri	Chail	30
2			Proposed Sumpwell at Kurpan Khad	UPF - Jimna Dogri	Chail	80
3			Water Treatment Plant at Pujarilanj	UPF C-12 Kathanda	Nishani	4300
4			Slow sand filter at Siswaser	UPF C-47 Sharshaya	Tunan	485
5			Proposed MBR Pujarilanj	UPF C-12 Kathanda	Nishani	81
6			Proposed MBR Mokutu	UPF C-48 Jhalu	Twar	64
7			Proposed SR Nirmand	UPF C-12 Kathanda	Nirmand	81
8			Proposed SR Sarkoti	UPF C-12 Kathanda	Nirmand	169
9			Proposed SR Shishvi	UPF C-10 Shishvi	Nirmand	81
10			Proposed SR Shanu	UPF C-12 Rajouri	Arsu	80
11			Proposed SR Marehri	UPF C-17 Marheri	Twar	81
12			Proposed SR Remu	UPF C-17 Marheri	Twar	64
13			Proposed SR Kedas	UPF C-17 Marheri	Twar	64
14			Proposed SR Bail	UPF C-9 Bayal	Gadej	81
15			Proposed SR Pokhni	UPF C-76 Bashlaya	Gadej	64
16			Proposed SR Achwa	UPF C-76 Bashlaya	Gadej	64
17			Proposed SR Chhotu	UPF C-77 Kalog	Gadej	64
18			Proposed SR Koil	UPF C-77 Kalog	Gadej	81


14/10/2021
निरीक्षक, जिला कुल्लू (रिजि. प्र.)

36. 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. As per detailed project report, maximum dia pipes are less than 200mm which can be easily laid within the ROW of the roads.

37. As per the indicative alignment, pipelines will primarily traverse one National highway, NH-305 and one State highway, SH 29, 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**.

38. 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.

39. Details of proposed Water Supply network, available ROW for roads, dia. And length of pipes are presented in Table 12.

Table 12: 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	4,49,375	1 m to 12 m	25 mm to 200 mm
2	Total Water Supply Network in Major Road– NH305 /SH29	15,100	6 m to 14 m	
3	Total Water Supply Network in village roads, transect walks, Kuccha paths, forest trail paths etc	4,34,275	1 m to 4 m	

Source: Preliminary Detailed Project Report, 2020-2021.

40. Grid wise details regarding proposed routes of Rising Mains, Gravity Mains and Distribution Network are presented in Table 13.

Table 13: Grid Wise Details of Proposed Routes for Rising Mains, Gravity Mains and Distribution Networks

Grid	Rising Mains	Gravity Mains	Distribution Network
MK-1	There is no rising main proposed in this grid	Gravity Mains will majorly follow internal district/ village roads usually 4-6 m wide and katcha pathways.	Distribution network will traverse through forest trails, internal district/ village roads and katcha pathways.
MK-2	<p>RM-1: From Source to WTP Bandrol through forest trails</p> <p>RM-2: From PH near WTP Bandrol to MBR Katai forest trails, SH-29 and katcha pathways.</p> <p>RM-3: From proposed MBR Kataito Proposed MBRManjdhari through forest trials and village road.</p> <p>RM-4: From Source to WTPSeobagh through Katcha pathways.</p> <p>RM-5: From PH near WTPSeobagh to MBR Seobagh forest trails, SH-29 and katcha pathways.</p> <p>RM-6: From Source to WTPBadah through Katcha pathways.</p> <p>RM-7: From PH near WTPBadah to SR Badah forest trails and katcha pathways.</p> <p>RM-8: From Source to WTPJhakru through Forest trails.</p> <p>RM-9: From PH near WTPJhakru to MBRBhrogiinternal district/ village roads, forest trails and katcha pathways.</p> <p>RM-9: From MBR Bhrogito SR Paddarinternal district/ village roads, forest trails and katcha</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 RM.</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 29 and NH 3 at various places as appended in Appendix 7.</p>

Grid	Rising Mains	Gravity Mains	Distribution Network
MK-6	There is no rising main proposed in this grid	<p>Gravity Mains will traverse through internal district/ village roads (4-6 m wide), Forest Trails 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 (4-6 m wide), Forest Trails and Katcha pathways.</p> <p>No NH/ SH will be crossed or traversed by the proposed DN.</p>
MK-7	<p>RM-1: From proposed Sourceon TirthanKhad to WTP Shida. The RM will traverse through katchpathways.</p> <p>RM-2: From WTP/ PH to Sumpwell cum SR at Padhola through forest trails andkatcha pathways.</p> <p>RM-3: From WTP/ PH to Sumpwell cum SR at Padhola to MBR Jauri through forest trails andkatcha pathways.</p> <p>No NH/ SH will be crossed or traversed by the proposed RMs.</p>	<p>Gravity Mains will traverse through, internal district/ village roads and Katcha pathways.</p> <p>GM from SRDhandhar to SR Manglore will cross the Bridge with NH 305.</p>	<p>Distribution lines will traverse through NH 305 (appended in Appendix 7), internal district/ village roads and Katcha pathways.</p>

Grid	Rising Mains	Gravity Mains	Distribution Network
MK-9	<p>RM-1: From proposed Sourceon Joan Khad to WTP Joan Khad. The RM will traverse through Forest Trails.</p> <p>RM-2: From WTP/ PH to MBR-1 through forest trails, Village road andkatcha pathways.</p> <p>RM-3: From MBR-1 to MBR-2 through forest trails andkatcha pathways.</p> <p>RM-4: From WTP/ PH to Sump well cum SR in village Manjhadeshthrough forest trails, andkatcha pathways.</p> <p>RM-5: From Sump well cum SR in village Manjhadeshto MBR-3 through forest trails, andkatcha pathways.</p> <p>RM-6: From proposed sourceon BhargodKhad to WTP Bhargod. The RM will traverse through Forest Trails.</p> <p>RM-7: From proposed WTP Bhargod to MBR-4. The RM will traverse through Forest Trails, katcha path and will cross SH-11.</p>	<p>Gravity Mains will traverse internal district/ village roads and Katcha pathways.</p> <p>The proposed Distribution line will cross SH 11 and NH 305 at various places as appended in Appendix 7.</p>	<p>Distribution lines will traverse through SH 11 and NH 305 (appended in Appendix 7), internal district/ village roads and Katcha pathways.</p>
MK-12	<p>There is no rising main proposed in this grid</p>	<p>Gravity Mains will traverse SH-28, internal district/ village roads and Katcha pathways.</p>	<p>Distribution lines will majorly follow internal district/ village roads, SH-28 and katcha pathways.</p>



Source: Preliminary Detailed Project Report, 2020-2021.

41. Sample Survey of Indicative Pipeline Alignment at Various Locations in MZ01 and of Market Places with Google Earth Maps and Site Photographs are appended in **Appendix 9** respectively.


42. 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.



43. 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 14.



Table 14: 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	Seobagh Road near marketplace 1	6-8 meter	150-200 mm	HDPE/ GI	
2	Seobagh marg near marketplace 2	4-6 meter	50-150 mm	HDPE/ GI	



S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
3	SH 29 near market place	6-8 meter	100-200 mm	HDPE/ GI	
4	SH 29 at junction	6 meter	100-150 mm	HDPE/ GI	


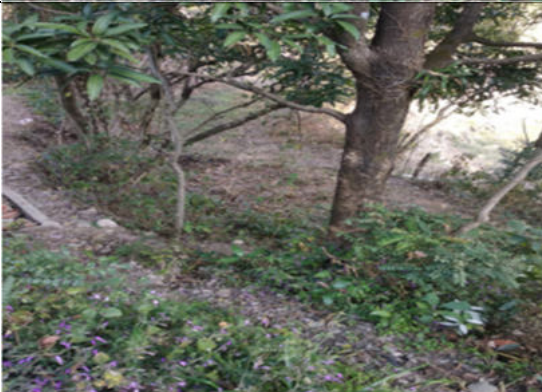
S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
5	Unnamed Road near Kais	4 meter	50-100 mm	HDPE/ GI	



S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
6	Salangh Project Road	4-6 meter	50-150 mm	HDPE/ GI	
7	Unnamed village path	1-3 meter	40-80 mm	HDPE/ GI	



S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
8	Unnamed Village Road	4meter	25-65 mm	HDPE/ GI	
9	Unnamed Village Road	6meter	50-150 mm	HDPE/ GI	



S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
10	Unnamed Forest Trail/ Kaccha Path	1-2 meter	25-50 mm	HDPE/ GI	 A photograph showing a grey pipe laid on a rocky forest trail. The pipe is positioned horizontally across the path, which is composed of various sized rocks and some sparse vegetation. The background shows more of the forest floor with dry leaves and branches.
11	Unnamed Kaccha Road	1-2 meter	50-100 mm	HDPE/ GI	 A photograph showing a grey pipe laid on a rocky path in a forest. The pipe is positioned horizontally across the path, which is composed of various sized rocks and some sparse vegetation. The background shows more of the forest floor with dry leaves and branches.

S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
12	Unnamed forest trail/ Kaccha Path	1-2 meter	50-100 mm	HDPE/ GI	
13	Unnamed Kaccha Path	1-2 meter	50-100 mm	HDPE/ GI	

S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
14	Unnamed Kaccha Path	1-2 meter	25-100 mm	HDPE/ GI	 A photograph showing a narrow, unpaved path (kaccha path) winding through a wooded area. The ground is covered with dry leaves and small rocks. The trees are mostly deciduous with green foliage.
15	Unnamed Forest Trail	1-2 meter	25-100 mm	HDPE/ GI	 A photograph showing a narrow, unpaved forest trail. The path is surrounded by dense green vegetation and trees. The ground is covered with dry leaves and small rocks.

S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
16	Unnamed Forest Trail	1-3 meter	25-100 mm	HDPE/ GI	
17	Unnamed Forest Trail	1-2 meter	25-40 mm	HDPE/ GI	


S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
18	Unnamed Forest Trail	1-2 meter	25-50 mm	HDPE/ GI	 A photograph showing a rocky, uneven terrain with sparse vegetation. A black line is drawn across the ground, indicating a proposed alignment. The text "Proposed alignment Rising Math" is overlaid on the image.
19	Unnamed Road	2-3 meter	50-100 mm	HDPE/ GI	 A photograph showing a paved road surface. A long, dark pipe is laid out on the ground, following the edge of the road. The pipe is likely for a drainage or water supply system.



S. No	Name of Area	Road width	Dia	Pipe Material	Photographs
20	Unnamed Kaccha path	1-2 m	50-80 mm	HDPE/ GI	
21	Unnamed Kaccha path	1-2 m	25-50 mm	HDPE/ GI	



Source: Site Visits, Transect walks and Preliminary Detailed Project Report, 2020-2021.



44. Details of proposed Rising Mains from proposed water pumping stations along with photograph of nearby area are presented in table 15.




Table 15: Photographs of Rising Main for the Water Pumping Station

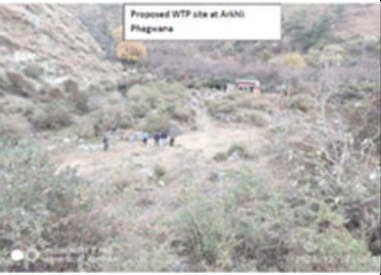


S. No.	Name	WTP Capacity	RM Starting Point	RM Ending Point	Location	Design Velocity in RM	Length of Pumping Main	Dia of pipe	Road Width	Photograph of the nearby area
1	Grid MK2 RM from proposed borewell to proposed WTP Bandrol	366 KLD	Borewell	Raw Water tank at Proposed 366 KLD WTP	In Village Kais	0.73 m/s	204 m	100 mm	1-2 m katcha pathway	
2	Grid MK-2 RM from proposed WTP Bandrol to proposed MBR Katai	366 KLD	Clear Water tank at Proposed 366 KLD WTP	MBR Katai	In Village Kais	0.73 m/s	2447 m	100mm		




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
3	Grid MK-2 RM from Pump proposed MBR Katai to proposed MBR Manjhdhari	366 KLD	Proposed MBR Katai	Proposed MBR Manjhdhari	In Village Kais	0.76 m/s	1275m	65mm	1 to 3 meter	
4	Grid MK-2 RM from Proposed Borewell to Proposed WTP Seobagh	220 KLD	Borewell	Raw Water tank at Proposed 220 KLD WTP Seobagh	In Village Kais	0.69 m/s	78m	80mm	3-4 meter road	




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
5	Grid MK-2 RM from Pump house near proposed WTP Seobaghto Proposed MBR Seobagh	220 KLD	Clear Water tank at Proposed 220 KLD WTP Seobagh	Proposed MBR Seobagh	In Village Kais	0.69 m/s	1627m	80mm	2-4 meter	
6	Grid MK-2 RM from Proposed borewell Badah to proposed WTP Badah	427 KLD	Proposed borewell	Proposed WTP	In Village Badah	0.86 m/s	123 m	100mm	1-3 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
7	Grid MK-2 RM from Pump house near WTP Badah to proposed SR Badah	427 KLD	PH Badah	Proposed SR Badah	In Village Badah	0.85 m/s	1407m	100mm	1 to 3 meter	
8	Grid MK-2 RM from proposed borewell JhakruMohalkhad to proposed WTP	75 KLD	Proposed borewell	Proposed WTP	In village Mohal	0.59 m/s	88	50mm	1-2 kaccha path	

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
9	Grid MK-2 RM from proposed PH near WTP Jhakru to proposed MBR Bhrogi	75 KLD	Proposed PH Jhakru	Proposed MBR Bhrogi	Village Mohal	0.59 m/s	1644 m	50 mm	2-3 m wide	
10	Grid MK-2 RM from proposed MBR Bhrogi to existing SR Padhar	75 KLD	Proposed MBR Bhrogi	Existing SR Padhar	Village Mohal	0.61 m/s	1286m	50mm	1 to 2 meter	
11	Grid MK-7 RM from Proposed Diversion Spur, at Tirthanto Proposed WTP Shida	700 KLD	Proposed Diversion Spur	Proposed WTP Shida	In Village Ratwah	0.85 m/s	230m	100mm	1 to 2 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
12	Grid MK-7 RM from Proposed PH Shidato proposed Sumpwell cum SR at 2 nd stage Padhola	1.1 MLD	Proposed WTP Shida	Proposed Sumpwell cum SR at 2 nd stage Padhola	In Village Samnos	1.09 m/s	1946m	125mm	2 m wide	
13	Grid MK-7 RM from proposed Sumpwell cum SR at 2 nd stage Padhola to proposed MBR Jauri	1.1 MLD	Proposed Sumpwell cum SR at 2 nd stage Padhola	Proposed MBR Jauri	In Village Chakurtha	1.05 m/s	2441 m	125mm	2 m wide	
14	Grid MK-9 RM from Proposed Diversion Spur at Joan Khad at Tirthan to Proposed WTP Joan Khad	900 KLD	Proposed Diversion Spur at Joan Khad	Proposed WTP Joan Khad	In Village Kohila	0.746 m/s	65m	125mm	2 m wide	

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
15	Grid MK-9 RM from Proposed WTP Joan Khad to proposed MBR-1 (OHT-10m)	900 KLD	Proposed WTP Joan Khad	Proposed MBR-1 (OHT-10M)	In Village Kohila	0.817 m/s	1357 m	125mm	2 m wide	 pump house near MBR-1 (OHT)
16	Grid MK-9 RM from proposed MBR-1 (OHT-10m) to proposed MBR-2	900 KLD	Proposed MBR-1 (OHT-10M)	Proposed MBR-2	In Village Kohila	0.655 m/s	944 m	100mm	2 m wide	 MBR-1(OHT, 10M)
17	Grid MK-9 RM from Proposed PH near WTP JaonKhad to proposed Sumpwell cum SR	900 KLD	Proposed PH near WTP JaonKhad	Proposed Sumpwell cum SR	In Village Kohila	0.825 m/s	2022 m	50mm	2 m wide	 head wear WTP pump house at Jaon khad

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
18	Grid MK-9 RM from Proposed PH near proposed Sumpwell cum SR to proposed MBR-3	900 KLD	Proposed PH near proposed Sumpwell cum SR	proposed MBR-3	In Village ManjhaDe sh	0.626 m/s	2480 m	50mm	2-3 m wide	 pump house, sump well in village manjadesh
19	Grid MK-9 RM from Proposed Head weir, rectangular channel, sump at Bhargolkhad to proposed WTP Bhargol	200 KLD	Proposed Head weir, rectangular channel, sump at Bhargolkhad	Proposed WTP Bhargol	In Village ManjhaDe sh	0.615 m/s	64 m	65mm	2-3 m wide	 head wear sump & WTP at Bhargod khad
20	Grid MK-9 RM from proposed WTP Bhargol to Proposed MBR-4	200 KLD	Proposed WTP Bhargol	Proposed MBR-4	In Village Lajheri	0.615 m/s	1787 m	65mm	2-3 m wide	 MBR 4

Source: Site Visits, Transect walks and Preliminary Detailed Project Report, 2020-21.

45. 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. Most of the said infrastructure will be replaced and few components will be rehabilitated/ retrofitted based on their present condition. The owner of all the components will be Jal Shakti Vibhag (JSV).

46. 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.

47. 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 500 m at a time and refill the excavated area within the stipulated timeline. Construction contracts will include the above provisions.

48. **Indigenous Peoples.** No land acquisition or involuntary resettlement impacts are assessed as result of the subproject. MZ-01 is not located in a scheduled area⁴ as per Government of India 2018 notification. The Package has a small proportion of population (2.78%) classified as scheduled tribe,⁵ which is scattered (does not stay in tribal groups/community enclaves), is well-assimilated in society in the subproject areas and does not retain the characteristics of scheduled tribes or indigenous peoples⁶ 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.

⁵ "Scheduled tribes (scheduled tribes) are those communities notified as such by the President of India under Article 342 of the Constitution. The first notification was issued in 1950. Criteria followed for specification of a community as a scheduled tribe are (i) tribes' primitive traits; (ii) distinctive culture; (iii) shyness with the public at large; (iv) geographical isolation; and (v) social and economic backwardness before notifying them as a scheduled tribe."¹
Sources : [HTTPS://PIB.GOV.IN/PRESSRELEASE/FRAMEPAGE.ASPX?PRID=1514486](https://pib.gov.in/pressrelease/framepage.aspx?PRID=1514486),
[HTTPS://VIKASPEDIA.IN/SOCIAL-WELFARE/SCHEDULED-TRIBES-WELFARE/SCHEDULED-TRIBES-IN-INDIA](https://vikaspedia.in/social-welfare/scheduled-tribes-welfare/scheduled-tribes-in-india)
[HTTPS://NCST.NIC.IN/SITES/DEFAULT/FILES/2017/OFFICE_ORDER/798.PDF](https://ncst.nic.in/sites/default/files/2017/office_order/798.pdf)

⁶ ADB SPS 2009 uses the term indigenous peoples in a generic sense to refer to a distinct, vulnerable, social and cultural group possessing the following characteristics: (i) self-identification as members of a distinct indigenous cultural group and recognition of this identity by others; (ii) collective attachment to geographically distinct habitats or ancestral territories in the project area and to the natural resources in these habitats or territories; (iii) customary cultural, economic, social or political institutions that are separate from those of the dominant society and culture; and (iv) a distinct language, often different from the official language of the country or region.

Table 16: Scheduled Tribe (ST) Population MZ01 (Mandi Package-3)

Grid	ST Population	Total Population of the Command Area	Percentage %
MK1	6	2840	0.21
MK2	778	8573	9.08
MK6	44	2274	1.93
MK7	10	5983	0.17
MK9	61	6993	0.87
MK12	92	8950	1.03
Total	991	35613	2.78

Source: NRDWP website

VI. INFORMATION DISSEMINATION

49. 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. Public awareness campaigns within the entire project area will ensure that awareness on grievance redress procedures is generated. The Social Safeguards and Gender Officer PMU supported by PDMSC, will oversee the conduct of project coverage area-based awareness campaigns by the Safeguard Nodal Officer of concerned PIUs. The awareness campaigns will ensure that poor and vulnerable households are made aware of grievance redress procedures. Contractors will provide pamphlets to communities prior to start of works and information Boards during construction. The pamphlets and information boards will include relevant environmental and social safeguards, GRM information, and contact details of key personnel from PIU and contractors.

VII. CONCLUSION

50. 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.

51. The written consents from 10 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.

52. The 28 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).

53. 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.

54. 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-3 (MZ-01) 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.).

55. 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.

56. 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.

57. 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).

58. A budgetary provision will be made for costs likely to be incurred by JSV for completion of all formalities related to land donation, Direct Negotiation Land Purchase and updating of this DDR. This includes provisions towards DDR updating cost, consultation, communication grievance redress mechanism and contingencies.

59. During consultations, the Voluntary Land Donors conveyed their willingness to donate their land parcels for the project that will benefit the community with safe drinking water. They themselves showed concern over the present quality of drinking water they consume and appreciated government's effort of disturbing clear and treated water.

VIII. NEXT STEPS

60. 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.
61. During the DMS, if any involuntary resettlement impact is identified, a resettlement plan would be prepared.
62. 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.
63. Process followed in independent third-party certification, documentation of acceptability of third party to both JSV and the land owners. DDR will be updated with third party certification.
64. 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 at the time of DMS;
65. 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;
66. 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.
67. Required NOCs for laying of pipeline from Forest Department/ PWD/ NHAI will be included in the updated DDR.
68. Land area related information for proposed project components will be appended in the updated DDR prior to contract award.
69. Gift deeds executed by the land donors will be included in the updated DDR.
70. Consultation with remaining one (1) land donor to be included in the updated DDR prior to contract award.

Appendix 1: Grid Wise Population Projection in MZPK-2

Grid MK- 1

Sr. No.	Name of Scheme	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	Wssgramang	Gramang	Gramang	203	224	231	257	282	308
2	Wsssamalang	Teun	Samalang	136	150	155	172	189	206
3	Wssphallan	Phallan	Jindi	331	365	377	418	460	501
4			Liani	116	128	132	147	161	176
5			Phallan	100	110	114	127	139	152
6	Wssmashna	Mashna	Dogri	42	47	48	54	59	64
7			Gadeshed	119	131	136	151	166	180
8			Karashang	87	96	99	110	121	132
9			Mashegra	63	70	72	80	88	96
10			Mashna	93	103	106	118	130	141
11			Pankuti	11	13	13	14	16	17
12			Samilang	23	26	27	30	32	35
13			Shelmail	54	60	62	69	75	82
14			Shertu	13	15	15	17	19	20
15			Thach	105	116	120	133	146	159
16	Wssdughilagshildhari	Dughilag	Shildhari	150	165	171	190	209	227
17			Dughilag	928	1021	1056	1172	1288	1404
Total				2574	2840	2934	3259	3580	3900

Source: Detailed Project Report, 2020-2021.

Grid MK-2

Sr. No.	Scheme name	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	WSS DharaGhot	Kais	Dhara	104	115	119	132	145	158
2			Ghot	206	227	235	261	286	312
3			Ukhala age	477	525	543	603	662	722
4			Sharn age	398	438	453	503	553	602
5	WSS KaisBishtbeher		Kais	1620	1782	1843	2046	2248	2451
6			Purana kais	354	390	403	447	492	536
7			Bishtabehar	228	251	260	288	317	345
8			Kotage	541	596	616	684	751	819
9	WSS Soul Sour Karadsu		Soil	237	261	270	300	329	359
10			Banoni	245	270	279	310	340	371
11			Padru	200	220	228	253	278	303
12			Sour	620	682	706	783	861	938
13			Khararsu	463	510	527	585	643	701
14			Rougi	2136	2350	2430	2697	2964	3231
15			Manjhdhari	480	528	546	606	666	726
16			Kholtu	298	328	339	377	414	451
17			Kalamidhar	130	143	148	165	181	197
18			Foshni	99	109	113	125	138	150
19			Tandla	213	235	243	269	296	323
20			Chogin	561	618	639	709	779	849
21			Katai	189	208	215	239	263	286
22			Romani	249	274	284	315	346	377
23			Gaduaidev	327	360	372	413	454	495
24			Bhalogi	796	876	906	1005	1105	1204
25			Kotadhar	488	537	556	617	678	739
26	WSS Seobag		Hawai	17	19	20	22	24	26
27			Seobagh	1260	1386	1434	1591	1749	1906
28			Dhaloginala	361	398	411	456	501	547
29			Rongribagh	41	46	47	52	57	63

Sr. No.	Scheme name	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
30			Banougi	332	366	378	420	461	503
31			Farmeh	159	175	181	201	221	241
32			Suiropa	28	31	32	36	39	43
33	WSS ChachogaMalhar		Chachoga	200	220	228	253	278	303
34			Malahar	521	574	593	658	723	789
35	WSS Sarach, Kolibehar, Badah&KhalyaniPadhar	Barahar	KhunaliKhalyani	130	143	148	165	181	197
36			Padhar	84	93	96	107	117	128
37		Balh	Badah	3242	3567	3688	4094	4499	4904
38			BhunlaSarach	237	261	270	300	329	359
39			Kolibehar	110	121	126	139	153	167
Grand total				18381	20233	20925	23226	25521	27821

Source: Detailed Project Report, 2020-21.

Grid MK-6

Sr. No.	Name of Scheme	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	WSS NeenuJaistha	Parli	Arooseri	15	17	18	19	21	23
2			Bandalunala	20	22	23	26	28	31
3			Dabhachan	206	227	235	261	286	312
4			Deuribai	25	28	29	32	35	38
5			Sharaage	10	11	12	13	14	16
6			Jaishtha	575	633	655	726	798	870
7			Neenu	232	256	264	293	322	351
8	WSS NarolGarsaDhara	Bhallan	Bandal	126	139	144	160	175	191
9			Chirpana	18	20	21	23	25	28
10			Damrogi	78	86	89	99	109	118
11			Dhara	293	323	334	370	407	444

Sr. No.	Name of Scheme	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
12			Dugh	32	36	37	41	45	49
13			Garsa	118	130	135	149	164	179
14			Naroul	47	52	54	60	66	72
15			Neol	175	193	200	221	243	265
16			NoutodNiul	25	28	29	32	35	38
17			Ruad	66	73	76	84	92	100
			Total	2061	2274	2355	2609	2865	3125

Source: Detailed Project Report, 2020-2021.

Grid MK-7

Sr. No.	Name of Scheme	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	WSS SarchiBandalArkhaliPhagwana	Sarachi	Jamala	139	153	159	176	193	211
2			Sarachi	100	110	114	127	139	152
3			Sarachi 1	253	279	288	320	352	383
4			Busari	42	47	48	54	59	64
5			Talihar	49	54	56	62	68	75
6			Jhutli	143	158	163	181	199	217
7			Shiyanshadu	45	50	52	57	63	69
8			Bandhal	332	366	378	420	461	503
9			Gahi	50	55	57	64	70	76
10		Gushani	82	91	94	104	114	125	
11		Chakurtha	Chakurtha	181	200	206	229	252	274
12			Kahu Dhar	157	173	179	199	218	238
13			Phagwana	226	249	258	286	314	342
14			Nauli	30	33	35	38	42	46
15			Ondhar	52	58	60	66	73	79
16			Kachidhar	25	28	29	32	35	38

Sr. No.	Name of Scheme	Name of Village	Name of Habitation	Population					
				2011	2019	2022	2032	2042	2052
17			Hurla	66	73	76	84	92	100
18			Shamadi	39	43	45	50	55	59
19			Chachigad	19	21	22	24	27	29
20			Arkhali	54	60	62	69	75	82
21			Kharal	60	66	69	76	84	91
22			Chachigad 2	19	21	22	24	27	29
23			Ghoral	44	49	51	56	62	67
24			Padhola	40	44	46	51	56	61
25		Thati Bir	Thati Bir	99	109	113	125	138	150
26	Ganiyuli		117	129	134	148	163	177	
27	Kaluchi		83	92	95	105	116	126	
28	Shieeha		10	11	12	13	14	16	
29	Narauli		98	108	112	124	136	149	
30	Patola		80	88	91	101	111	121	
31	DharaTkala		112	124	128	142	156	170	
32	Ghmeer		36	40	41	46	50	55	
33	Shaila		124	137	142	157	173	188	
34	Chiludhar		12	14	14	16	17	19	
35	Breri		31	35	36	40	44	47	
36	Patari		18	20	21	23	25	28	
37	Banaur		11	13	13	14	16	17	
38	ThatiBir 2		23	26	27	30	32	35	
39	Siyarani		10	11	12	13	14	16	
40	Banaseri		15	17	18	19	21	23	
41	Shailindra		49	54	56	62	68	75	
42	Badhaul		54	60	62	69	75	82	
43	Shaila 2		124	137	142	157	173	188	
44	Kathiyara		11	13	13	14	16	17	

Sr. No.	Name of Scheme	Name of Village	Name of Habitation	Population							
				2011	2019	2022	2032	2042	2052		
45			Sukari Bir	87	96	99	110	121	132		
46			Nalasari	35	39	40	45	49	53		
47	WSS Seraj in Tehsil Banjar Distt. KulluH.P		Barnaal	60	66	69	76	84	91		
48			Kathayar	60	66	69	76	84	91		
49			Jhunjhon	35	39	40	45	49	53		
50			Chunahare	309	340	352	391	429	468		
51			Chahadi	52	58	60	66	73	79		
52			Palicha	86	95	98	109	120	131		
53			Pattan	60	66	69	76	84	91		
54			Alwah	314	346	358	397	436	475		
55			WSS Thatibir, Targali & Manglore etc. in Tehsil Banjar Distt. Kullu H.P.	Seeraj Ratwah	Ratwah	109	120	124	138	152	165
56					Kanderi	150	165	171	190	209	227
57	Manjan	63			70	72	80	88	96		
58	Bihali	33			37	38	42	46	50		
59	Manglor	222			245	253	281	309	336		
60	Dhandhar	83			92	95	105	116	126		
61	Shaludy	96			106	110	122	134	146		
62	Shida	58			64	66	74	81	88		
63	Jaul	78			86	89	99	109	118		
64	Bhunka	26			29	30	33	37	40		
65	Bira Ratwah	11			13	13	14	16	17		
66	Shida 2	23			26	27	30	32	35		
Total				5414	5983	6193	6866	7546	8217		

Source: Detailed Project Report, 2020-21.

Grid MK-9

S. no	Scheme Name	Village	Habitation	Population					
				2011	2019	2022	2032	2042	2052
1	WSS KhunBandalJadar	Khani	Bagicha	37	41	43	47	52	56
			Bandal	69	76	79	88	96	105
			Barothi	79	87	90	100	110	120
			Barvi	26	29	30	33	37	40
			Chamunger	25	28	29	32	35	38
			Charmatan	105	116	120	133	146	159
			Chohni	53	59	61	67	74	81
			Chowki	37	41	43	47	52	56
			Dabar	16	18	19	21	23	25
			Daber	37	41	43	47	52	56
			Dhamar	75	83	86	95	105	114
			Fater	21	24	24	27	30	32
			Gagni	93	103	106	118	130	141
			Glai	21	24	24	27	30	32
			Gunamar	62	69	71	79	87	94
			Jadar	63	70	72	80	88	96
			Kadelar	15	17	18	19	21	23
			Karerh	74	82	85	94	103	112
			Karmerh	47	52	54	60	66	72
			Katoli	63	70	72	80	88	96
			Khanevi	73	81	84	93	102	111
			Khun	50	55	57	64	70	76
			Mathena	13	15	15	17	19	20
			Matherla	63	70	72	80	88	96
Mohvi	101	112	115	128	141	153			
Natherla	42	47	48	54	59	64			
Pavi	100	110	114	127	139	152			
Raher	107	118	122	136	149	162			

S. no	Scheme Name	Village	Habitation	Population					
				2011	2019	2022	2032	2042	2052
			Raibag	67	74	77	85	93	102
			Shigagi	213	235	243	269	296	323
			Thakrerh	82	91	94	104	114	125
			Tharmi	30	33	35	38	42	46
2	WSS NagotPalli	Kohila	Shup	34	38	39	43	48	52
			Tipdhar	22	25	26	28	31	34
			Chakali	52	58	60	66	73	79
			Chakler	68	75	78	86	95	103
			Dharali	90	99	103	114	125	137
			Katobi	21	24	24	27	30	32
			Nagerh	72	80	82	91	100	109
			Jaterh	138	152	157	175	192	209
			Kutwa	85	94	97	108	118	129
			Rager	66	73	76	84	92	100
			Tipper Arn	58	64	66	74	81	88
			Kuichimati	45	50	52	57	63	69
			3	WSS ParkotKamand	Kohila	Kamand	144	159	164
JaonArn-li	10	11				12	13	14	16
Khoanal	3	4				4	4	5	5
Odidhar	14	16				16	18	20	22
Sougigaon	34	38				39	43	48	52
Dharot	18	20				21	23	25	28
Sarali	61	68				70	78	85	93
Chalohan	77	85				88	98	107	117
Dharalijan	104	115				119	132	145	158
Parlidhar	190	209				217	240	264	288
Bhatnibai	38	42				44	48	53	58
Shershpana	34	38				39	43	48	52
Banigad	40	44	46	51	56	61			

S. no	Scheme Name	Village	Habitation	Population					
				2011	2019	2022	2032	2042	2052
			Dofti	24	27	28	31	34	37
			Thachel	24	27	28	31	34	37
			Gadgari	68	75	78	86	95	103
4	WSS KhadviKafti	Buchhar	Kafti	14	16	16	18	20	22
			Khadvi	151	167	172	191	210	229
			Sarat	16	18	19	21	23	25
			Nali	86	95	98	109	120	131
5	WSS Khanag	Lajheri	Agudhar	18	20	21	23	25	28
			Banala	118	130	135	149	164	179
			Banibeel	21	24	24	27	30	32
			Banidhar	25	28	29	32	35	38
			Bargol	85	94	97	108	118	129
			Bhargol Gad	10	11	12	13	14	16
			Bharti Gad	30	33	35	38	42	46
			Charmohal	46	51	53	59	64	70
			Chiulamb	52	58	60	66	73	79
			Darnudhar	10	11	12	13	14	16
			Deopunj	15	17	18	19	21	23
			DharaMor	48	53	55	61	67	73
			Dhingchu	25	28	29	32	35	38
			Dogri	40	44	46	51	56	61
			Dogri Dhar	51	57	59	65	71	78
			Dora Nal	16	18	19	21	23	25
			Jakuna	14	16	16	18	20	22
			Jaon	214	236	244	271	297	324
			Jharonu	40	44	46	51	56	61
			Jora Gad	25	28	29	32	35	38
Kanda	135	149	154	171	188	205			
Khadar	15	17	18	19	21	23			

S. no	Scheme Name	Village	Habitation	Population					
				2011	2019	2022	2032	2042	2052
			Khanag	147	162	168	186	204	223
			Khaopat	31	35	36	40	44	47
			Khori	27	30	31	35	38	41
			Lohal	196	216	223	248	272	297
			Mithnu	42	47	48	54	59	64
			Saran	30	33	35	38	42	46
			Seo Dhar	19	21	22	24	27	29
			Sharogi	23	26	27	30	32	35
			Swagi	12	14	14	16	17	19
			Tanga Nal	15	17	18	19	21	23
			Tilra	42	47	48	54	59	64
			Tilra Sow	10	11	12	13	14	16
			Tungra Dhar	30	33	35	38	42	46
6	WSS DughaShigani	ManjhaDesh	Chanog	129	142	147	163	179	196
			Daghoot	93	103	106	118	130	141
			Dhar	62	69	71	79	87	94
			Ghanair	54	60	62	69	75	82
			Kutwa 1	116	128	132	147	161	176
			Loharla	58	64	66	74	81	88
			Natharla	27	30	31	35	38	41
			Shakahar	16	18	19	21	23	25
			Saran 1	29	32	33	37	41	44
			Saran-age	11	13	13	14	16	17
			Gugra	31	35	36	40	44	47
			Dhobi (Dhar)	148	163	169	187	206	224
Total				6311	6993	7236	8020	8812	9600

Source: Detailed Project Report, 2020-2021.

Grid MK - 12

S. No.	Name Of Scheme	Village	Name Of Habitation	Population Forecast					
				2011	2019	2022	2032	2042	2052
1	WssNirmand	Nirmand	Shagoli	643	708	732	812	893	973
			Bus Adda	984	1083	1120	1243	1366	1489
			Kuru (T)	24	27	28	31	34	37
			Shishvi	390	429	444	493	542	590
			New Nagri(T)	100	110	114	127	139	152
			Takoli (T)	633	697	721	800	879	958
			Snarla Muhala (T)	369	406	420	466	512	559
			Luharla (T)	30	33	35	38	42	46
			Bhiunta (T)	141	156	161	179	196	214
			Deem Muhala (T)	304	335	346	384	422	460
			BishnuMuhala (T)	329	362	375	416	457	498
			Mindki	105	116	120	133	146	159
			Pokdhar	194	214	221	245	270	294
			Piptu	123	136	140	156	171	187
2	WssRemuKedas	Remu	Pujarilang	94	104	107	119	131	143
			Jhayara	240	264	273	303	333	363
			Olinalh	120	132	137	152	167	182
			Johar	76	84	87	96	106	115
			Kandu	76	84	87	96	106	115
			Kedas	154	170	176	195	214	233
			Dhankapad	75	83	86	95	105	114
			Marehri	616	678	701	778	855	932

S. No.	Name Of Scheme	Village	Name Of Habitation	Population Forecast					
				2011	2019	2022	2032	2042	2052
			Remu	194	214	221	245	270	294
3	Wss Bail Dharopa	Baial	Bagajaan	6	7	7	8	9	10
			Bail	540	594	615	682	750	817
			Dropa (T)	62	69	71	79	87	94
			Kandli	16	18	19	21	23	25
4	WssShanuJaterh	Arsu	Jaterh	57	63	65	72	80	87
			Shanu	87	96	99	110	121	132
5	WssChatti	Chhati	Siswaser	268	295	305	339	372	406
			Lower Chhati	140	154	160	177	195	212
			Upper Chhati	173	191	197	219	241	262
6	WssKoil	Gadej	Achwa	18	20	21	23	25	28
			Dhamota	88	97	101	112	123	134
			Dogri	65	72	74	83	91	99
			Khatal	78	86	89	99	109	118
			Koil	323	356	368	408	449	489
			Kuku	48	53	55	61	67	73
			Pokhani	72	80	82	91	100	109
			Sarlie	40	44	46	51	56	61
			Satvan	27	30	31	35	38	41
			Total	8122	8950	9257	10272	11292	12304

Source: Detailed Project Report, 2020-21.

Appendix 2: 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-19.⁷ However, precautions can be implemented to prevent and slow down the transmission of the virus.

C. Common Symptoms of Corona Virus Disease⁸

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;

⁷World Health Organization. <https://www.who.int/health-topics/coronavirus#TAB=1>

⁸World Health Organization. <https://www.who.int/health-topics/coronavirus#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-19⁹ 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.

⁹[HTTPS://WWW.ADB.ORG/DOCUMENTS/SERIES/COVID-19-ASIA-PACIFIC-GUIDANCE-NOTES](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.


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	64	51	13	<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	Topics Discussed	Photographs
1	9.11.2020	Ms.Gora Thakur Ms.Gudi Thakur Ms. Yuma Negi Ms. Devki Devi Ms. Dibh Dashi Ms. Mini Devi Ms. Dharam Dasi Ms.Choma Devi Mr, Daleep Negi Mr. ChanderSain Negi Mr. Neel Chand Negi Mr. Thakur Chand Mr. Sarvanbo Mr. Vimal Negi Mr. Surender Kumar Mr. Lall Chand Mr. SukhDayal Mr. NeranjanDass	Kais village, Kais Panchayat	<p>The community consultation with Indigenous People (STs) Community was held at Kais village belonging to Kais Panchayat.</p> <p>IP community informed that farming, knitting of sweaters, shawls. Also, cultivation and sale of Apples, Plum and Pear are major occupation of the community.</p> <p>Issues raised by public were concerning about irregular supply of water forcing them to purchase personal drums and tanks to store water. The existing source serving them was a local spring source whose discharge is not reliable throughout the year. Hence in peak summers the spring dries up causing delays in water supply. Other problems stated were leakages of pipes, repairs and maintenance issues in pipelines.</p> <p>Therefore, the proposed reliable source of a dedicated bore well to serve the LWSS Seobagh scheme of their village was explained.</p> <p>The IP community members were satiated with project preparedness.</p> <p>The automation concept was explained to the community. The smart water metering was also explained, and community was willing to pay the charges for the frequent and good water supply.</p> <p>Alternative arrangement of water supply during execution phase will be ensured. GRM (Grievance Redressal Mechanism) was explained to Community and was well appreciated.</p> <p>The participants conveyed their support to the project and its benefits. It was informed by the officials that continuous community consultations</p>	 

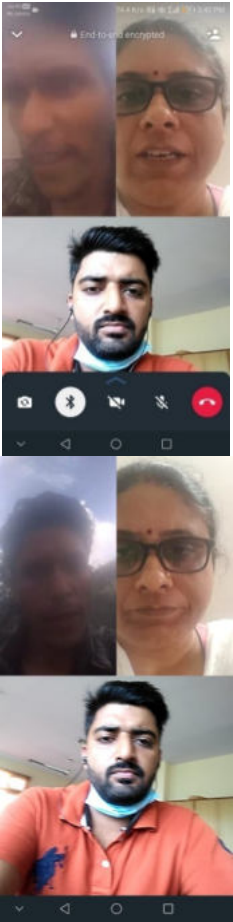
S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
		Mr. Bhim Sen Mr. Prem Singh Mr. Balbir Singh Mr. Sham Lall Mr. Chunilal Negi Mr. Relu Ram Mr. G.S. Negi Mr. Mohan Lal Mr. Mongal Chand Negi Mr. Kenj Lal Negi Mr. Gyan Chand Ms. Pushpa Devi Ms. Phulmu Devi Mr. Deva Ram Mr. Permanand		will be organized before, during and after execution of the project.	
2	9.11.2020	Ms. Era Mr. Jai Chand Mr. Sabha Ram Mr. PermaNand Mr. ThormalNand	Mashna Village, Mashna Panchayat	<p>The community consultation was held at Mashna village belonging to Mashna Panchayat</p> <p>The community members stated there is more or less adequate supply of water. However, since the existing tanks and pipelines are very old and have past their design service period. There are major leakages in tanks and water supply pipelines.</p>	



S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
		<p>Mr. Manal Singh</p> <p>Mr. Som Dev</p> <p>Ms. Marti Devi</p> <p>Ms. Thakur Devi</p> <p>Ms. Neeru</p>		<p>Therefore, the replacement of the existing water supply components where proposed was explained to the community members.</p> <p>The proposed source and the automation concept were explained to the community. The smart water metering was explained, and community was willing to pay the water charges for the frequent and good quality of water supply.</p> <p>Alternative arrangement of water supply during execution phase will be ensured.</p> <p>GRM (Grievance Redressal Mechanism) was explained to public and was well appreciated.</p> <p>The participants conveyed their support to the project and its benefits. It was informed by the officials that continuous community consultations before, during and after execution of the project will be organized.</p>	 

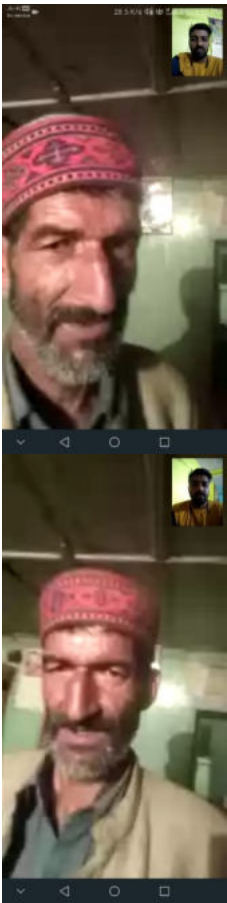
S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
3	9.11.2020	Ms. Gora Thakur Ms. Gudi Thakur Ms. Yuma Negi Ms. Devki Devi Ms. Sibh Dashi Ms. Mini Devi Ms. Dharam Dasi Ms. Choma Devi Ms. Pushpa Devi Ms. Phulmu Devi	Kais village, Kais Panchayat	<p>There is an urgent need of water in the village. Majority of the community members store water in their personal tanks and drums since the supply is not regular. The existing pipelines are frequently being broken by the running vehicles.</p> <p>The proposed source and the automation concept were explained to the community. The smart water metering was explained, and community was willing to pay the charges for the frequent and good quality of water supply.</p> <p>Alternative arrangement of water supply during execution phase would be ensured. GRM (Grievance Redressal Mechanism) was explained to community and was well appreciated. The participants conveyed their support to the project and its benefits. It was informed by the officials that continuous community consultations will be organized before, during and after execution of the project.</p>	 

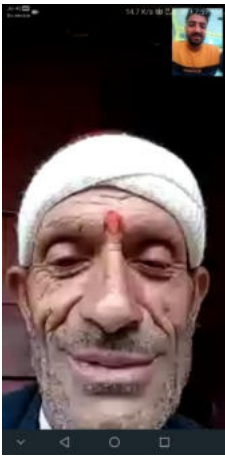

S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
4	17.09.2021	Mr. Gian Chand (Voluntary Land Donor)	Virtual	<p>The consultation was conducted virtually. The proposed land is unused vacant land, located in village Chakurtha and is to be used for construction of SR Chakurtha.</p> <p>Mr. Gian Chand is a full-time farmer, owning approximately 23,400 sqm of land. On asking whether his decision to donate the land was coerced or his will, he happily confirmed that he is donating his land to JSV for the benefit of the whole village at his own will, without any coercion.</p> <p>He raised a major concern that there is no proper piped water connection in his village, and he has put his own personal pipe for water supply.</p> <p>Hence, he is donating the land for the frequent and clear water supply in the village.</p>	


S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
5	17.09.2021	Mr. Mayadhar Sharma (Voluntary Land Donor)	Virtual	<p>The consultation was conducted virtually. The proposed land is unused vacant land, located in village Chakurtha and is to be used for construction of SR Bagadhar.</p> <p>Mr. Mayadhar Sharma is a full-time farmer, owning approximately 9,700 sqm of land. On asking whether his decision to donate the land was coerced or his will, he happily confirmed that he is donating his land to JSV for the benefit of the whole village at his own will, without any coercion.</p> <p>He raised a major concern that there is insufficient intermittent water supply in every alternate day.</p>	

S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
6	17.09.2021	Mr. Khem Singh (Voluntary Land Donor)	Virtual	<p>The consultation was conducted virtually. The proposed land is unused vacant land, located in village Ratwah and is to be used for construction of SR Manglore.</p> <p>Mr. Khem Singh is a full-time farmer, owning approximately 1200 sqm of land. On asking whether his decision to donate the land was coerced or his will, he happily confirmed that he is donating his land to JSV for the benefit of the whole village at his own will, without any coercion.</p> <p>He raised a major concern that during rainy season water gets contaminated and muddy. Hence, he is donating the land for the frequent and clear water supply in the village.</p>	

S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
7	17.09.2021	Mr. Jeet Ram (Voluntary Land Donor)	Virtual	<p>The consultation was conducted virtually. The proposed land is unused vacant land, located in village Thati Bir and is to be used for construction of SR Sukaribir</p> <p>Mr. Jeet Ram is a full-time farmer, owning approximately 4000 sqm of land. On asking whether his decision to donate the land was coerced or his will, he happily confirmed that he is donating his land to JSV for the benefit of the whole village at his own will, without any coercion.</p> <p>He raised a major concern that there is insufficient water supply and water is supplied every alternate day.</p>	
8	18.09.2021	Mr. Meher Chand (Voluntary Land Donor)	Virtual	<p>The consultation was conducted virtually. The proposed land is unused vacant land, located in village Chakurtha and is to be used for construction of SR Ruhan</p> <p>Mr. Meher Chand is a full-time farmer, owning approximately 6400 sqm of land. On asking whether his decision to donate the land was coerced or his will, he happily confirmed that he is donating his land to JSV for the benefit of the whole village at his own will, without any coercion.</p> <p>He raised a major concern that the existing scheme is really old with damaged and failing infrastructure and hence, water supply is inadequate in his village</p>	

S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
9	18.09.2021	Mr. Yub Raj (Voluntary Land Donor)	Virtual	<p>The consultation was conducted virtually. The proposed land is unused vacant land, located in village Thati Bir and is to be used for construction of SR Marour.</p> <p>Mr. Yub Raj is a full-time farmer, owning approximately 3200 sqm of land. On asking whether his decision to donate the land was coerced or his will, he happily confirmed that he is donating his land to JSV for the benefit of the whole village at his own will, without any coercion.</p> <p>He raised a major concern that there is insufficient water supply and water is supplied every alternate day.</p>	

S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
10	19.09.2021	Mr. Gulab Chand (Voluntary Land Donor)	Virtual	<p>The consultation was conducted virtually.</p> <p>The proposed land is unused vacant land, located in village Bihali and is to be used for construction of SR Bihali</p> <p>Mr. Gulab Chand is a full-time farmer, owning approximately 5600 sqm of land. On asking whether his decision to donate the land was coerced or his will, he happily confirmed that he is donating his land to JSV for the benefit of the whole village at his own will, without any coercion.</p> <p>He raised a major concern that there is insufficient water supply and water is supplied for 1-2 hours every day.</p>	
11	19.09.2021	Mr. Narayan Singh (Voluntary Land Donor)	Virtual	<p>The consultation was conducted virtually.</p> <p>The proposed land is unused vacant land, located in village Chakurtha and is to be used for construction of SR Jauri.</p> <p>Mr. Narayan Singh is a full-time farmer, owning approximately 9700 sqm of land. On asking whether his decision to donate the land was coerced or his will, he happily confirmed that he is donating his land to JSV for the benefit of the whole village at his own will, without any coercion.</p> <p>He raised a major concern that the existing scheme is really old with damaged and failing infrastructure.</p>	

S.No.	Date	Name of participants	Location/Gram Panchayat	Topics Discussed	Photographs
12	28.09.2021	Mr. Mayadhar Sharma (Voluntary Land Donor) Mr. Kali Ghosh, ADB Social Safeguard Consultant	Virtual	<p>The consultation was conducted virtually with Mr Mayadhar Sharma in the presence of ADB's Social Safeguard Consultant.</p> <p>The proposed land is unused vacant land, located in village Chakurtha and is to be used for construction of SR Bagadhar</p> <p>Mr. MayadharSharma is a full-time farmer owning approximately 12 bigha (9700 sqm) of land. On asking whether his decision to donate the land was coerced or his will, he happily confirmed that he is donating his land to JSV for the benefit of the whole village at his own will, without any coercion.</p> <p>He raised a major concern that water supply is not regular, and there is water scarcity in the village.</p>	

Source: Site Visits and Public Consultations 2020-2021

Appendix 3 (A): Attendance Sheets of Public Consultations

Public Consultation at Kais Village, Kais Panchayat






Public Consultation at Seabegh. (MR2) (9/11/2) 8:15 2

Package: MZ-P-3 Zone: Mandi Circle: Kullu District:							
S.No.	Name	Gender	Occupation	Designation	Mobile. No.	Village	Sign
1.	Gresa Thakur	F.M.	Samadh Hti Bodhan		9736687821		
2.	Gudi Thakur	F.M.	Bodhan Kadke		9817492874	Uogin	Gudi
3.	Kuma Negi	F.M.	Bodhan Kadke		988240007	Kais	X-11/11
4.	Devki Devi	"	H.W.			"	
5.	Sibh Daxi	"	"			"	
6.	Muni Devi	"	"		8988389242	"	
7.	Dhanam Daxi	"	"			"	
8.)	Chama Devi	"	"			"	
9.)	Daljit Negi	M	Combarke		8908800055	Seabegh.	
10.)	Chander Sain Negi	"	Advocate		8580785888	Kais	
11.)	Neel Chand Negi	"	Advocate		9805319616	"	
12.	Thakur Chand.	"	"		9418090266	Seabegh.	
13.	Sankar Borko	"	"		9805663547	"	
14.	Vimal Negi	"	"		9805388877	"	
15.	Suzender Kerman.	"	"		9816098664	Kais.	
16.)	Ball Chand	"	"		7807900226	"	
17.)	Sukh Chand	"	Welder General		8894583009	Seabegh.	
18.)	Naranjan Daxi	"	Advocate		9816138444	"	
19.)	Bhim Son	"	"		9459758328	Kais.	
20.)	Param Singh	"	"		9459784223	"	
21.	Balbir Singh	"	"		9459910135	"	
22.	Sham Lal	"	"		9459498116	"	
23.	Chandul Negi	"	"		9816203061	"	
24.	Relu Ram	"	"		988291915	"	







Appendix 4: Land Records from Forest Department and NOCs from Gram Panchayats

(A) Land from Forest Department









Grids MK1 and MK2

View Report of Submitted Proposals								
<div style="display: flex; justify-content: space-between; align-items: center;"> Help Click on  this icon for Viewing Report on Allocation of Fresh forest land(Form-A),  </div> <div style="margin-top: 10px;"> Enter value for Search : <input style="width: 250px;" type="text"/> <div style="text-align: right; margin-top: 5px;"><input type="button" value="Search"/></div> </div>								
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/114946/2020	WSS Dhara Ghot, WSS Seobag, WSS Chachoga Malhar, WSS Kais Bishtbehar, WSS Soil Sor Karadsu & WSS Sarch, Kolibehar, Badah & Khalyani Padhar Distt. Kullu (H.P.)	Drinking Water	EXECUTIVE ENGINEER JS DIVISION NO 1 KULLU	0.7142	17 Dec 2020	Draft	
2	FP/HP/WATER/114943/2020	WSS Samalang in GP Mangarh, WSS Mashna in GP Mashna, WSS Gramang in GP Chaparsa, WSS Dughilag Shildhari in GP Braman & WSS Phallan In Phallan Kullu (H.P.)	Drinking Water	EXECUTIVE ENGINEER JS DIVISION NO 1 KULLU	0.0674	17 Dec 2020	Draft	
3	FP/HP/IRRIG/47976/2020	Providing LIS to G/O villages in GP Bandrol, Jindor, Banogi, Babeli & Sari in Tehsil and Distt Kullu HP	Irrigation	EXECUTIVE ENGINEER JS DIVISION NO 1 KULLU	0.1794	27 Jul 2020	Draft	

Grids MK6 and MK7

List of Draft Proposals						
<div style="display: flex; justify-content: space-between; align-items: center;"> Help Click on  this icon for editing the details of Proposal submitted by User Agency in Draft mode.  </div> <div style="margin-top: 10px;"> Enter Proposal No. for Search : <input style="width: 250px;" type="text"/> <div style="text-align: right; margin-top: 5px;"><input type="button" value="Search"/></div> </div>						
Sno.	Proposal No.	Proposal Name	Category	Area (ha.)	Proposal Status	Edit
1	FP/HP/Others/114951/2020	Construction of Sewerage Scheme Adjoining area of Manali Town District Kullu (H.P.)	Others	4.46	Draft	 (forma1edit.aspx?pid=FP/HP/Others/114951/2020&status=YES)
2	FP/HP/WATER/114934/2020	WSS Neenu Jaista & WSS Narol Garsa Dhara	Drinking Water	0.166	Draft	 (forma1edit.aspx?pid=FP/HP/WATER/114934/2020&status=YES)
3	FP/HP/WATER/114930/2020	WSS sarchi Bandal arkali Phagwana, WSS Seraj & WSS Thatbir & Manglore etc.	Drinking Water	0.2733	Draft	 (forma1edit.aspx?pid=FP/HP/WATER/114930/2020&status=YES)
4	FP/HP/WATER/13344/2015	LWSS Kotla Gopalpur	Drinking Water	0.25	Draft	 (forma1edit.aspx?pid=FP/HP/WATER/13344/2015&status=Yes)

Grids MK9 and MK12

List of Draft Proposals						
<div style="display: flex; justify-content: space-between; align-items: center;"> Help Click on  this icon for editing the details of Proposal submitted by User Agency in Draft mode.  </div> <div style="margin-top: 10px;"> Enter Proposal No. for Search : <input style="width: 250px;" type="text"/> <div style="text-align: right; margin-top: 5px;"><input type="button" value="Search"/></div> </div>						
Sno.	Proposal No.	Proposal Name	Category	Area (ha.)	Proposal Status	Edit
1	FP/HP/WATER/114824/2020	WSS Shanu Jasterh, WSS Nirmand, WSS Remu Kedas, Wss Catt, WSS Bali Dharopa, & WSS Koi in Nirmand Block Distt. Kullu (H.P.)	Drinking Water	0.588	Draft	 (forma1edit.aspx?pid=FP/HP/WATER/114824/2020&status=YES)
2	FP/HP/WATER/114815/2020	WSS Khun Bandal Jadar Chowki, WSS Khadvi Kafti, WSS nagot Pali, WSS Khanag, WSS Parkot Kamand, WSS Dugha Shigani in Tehsil Anni Distt. Kullu (H.P.)	Drinking Water	0.5884	Draft	 (forma1edit.aspx?pid=FP/HP/WATER/114815/2020&status=YES)
3	FP/HP/Others/46713/2020	Aug. of various WSS Under GP Chail, Sarahan, Nore and Rahnoo in Nirmand Block Distt. Kullu H.P (C/O Pump House, Treatment Unit and Storage Tank)	Others	0.14	Draft	 (forma1edit.aspx?pid=FP/HP/Others/46713/2020&status=YES)
4	FP/HP/Others/45538/2020	C/O LIS KHUBU SATANGIDHAR IN NIRMAND BLOCK, DISTT. KULLU H.P	Others	0.034	Draft	 (forma1edit.aspx?pid=FP/HP/Others/45538/2020&status=Yes)
5	FP/HP/Others/45537/2020	LIS GUGRA KHAD TO C.V. MANJHADESH FOR HORTICULTURE PURPOSE IN G.P. CHOWAI IN ANNI BLOCK, DISTT. KULLU H.P	Others	0.096	Draft	 (forma1edit.aspx?pid=FP/HP/Others/45537/2020&status=Yes)
6	FP/HP/Others/45483/2020	AUG. OF WSS KARSHAIGAD, DIGERH IN C.V. KASHAIGAD & BISHLADHAR IN ANNI BLOCK, DISTT. KULLU H.P	Others	0.084	Draft	 (forma1edit.aspx?pid=FP/HP/Others/45483/2020&status=Yes)


(B) 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	MK-1	WSS Samalang	Mangarh	Yes	Nil
2		WSS Phallan	Phallan	Yes	Nil
3		WSS Dughlag	Dughlag	Yes	Nil
4		WSS Gramang	Choparsa	Yes	Nil
5		WSS Mashna	Mashna	Yes	Nil
6	MK-2	WSS Sarach, Kolibehar, Badah & Khalyani Padhar	Balah	Yes	Nil
7			Barahar	Yes	Nil
8		WSS Seobag	Kais	Yes	Nil
9			Gahar	Yes	Nil
10		WSS Dharaghot	Kais	Yes	Nil
		WSS Chachogamalhar		Yes	Nil
	WSS Soul Sor Kararsu	Yes		Nil	
11	MK-6	WSS Neenu Jaishtha	Jeshta	Yes	Nil
12		WSS Narolgarsa Dhara	Garsa	Yes	Nil
13	MK-7	WSS Sarchi Bandal Arkhali Phagwana	Sarachi	Yes	Nil
14			Chakurtha	Yes	Nil
15		WSS Thatibir, Targali & Manglore etc	Manglore	Yes	Nil
16		WSS Seraj	Seraj	Yes	Nil
17	MK-9	WSS Khanag, WSS Nagot Palli, Parkot & Khadvi Kafti in Tehsil Anni Distt. Kullu	Khanni	Yes	Nil
18			Kohila	Yes	Nil
19			Kamand	Yes	Nil

S. No.	Grid	Name of Scheme	Name of Gram Panchayat	Availability of Land Records/No Objection Certificate	Involuntary Resettlement Impact
20			Buchhar	Yes	Nil
21			Khanag	Yes	Nil
22			Deothi	Yes	Nil
23			Lajheri	Yes	Nil
24	MK-12	WSS Koli, WSS Shanujaterh, WSS Bail Dharopa, WSS RemuKedas, WSS Chatti	Nirmand	Yes	Nil
25			Tawar	Yes	Nil
26			Arsu	Yes	Nil
27			Tunan	Yes	Nil
28			Gadejh	Yes	Nil

GRID- MK-1, WSS Samalang**Gram Panchayat: Mangarh****Consent from Gram Panchayat**

We the residents of Mangarh Gram Panchayat, District
Kullu, 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
(विश्वं कुलु (Himachal))

(Sign and stamp) District



Executive Engineer
Executive Engineer
Jal Shakti Division No.-1
Kullu, DDO Code Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-1, WSS Phallan

Gram Panchayat: Phallan

Consent from Gram Panchayat

We the residents of FALLAN Gram Panchayat, District KULLU, 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 यत फलान
विकास खण्ड फुल्लू
जिला कुल्लू (हिमाचल)

_____ Panchayat

_____ District
(Sign and stamp)


Executive Engineer
Executive Engineer
Jal Shakti Division II
Kullu, DDO, Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-1, WSS Dughlag

Gram Panchayat: Dughlag

Consent from Gram Panchayat

We the residents of DUGHLAG Gram Panchayat, District KULLU, 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
 Gram Panchayat Dughlag
 Dist. Block Sulu Kulu (H.P.) Panchayat

 (Sign and stamp) District


 Executive Engineer
 Executive Engineer
 Jal Shakti Division No.-1
 Kullu, DDO Circle-743
 Jal Shakti Vibhag
 (Sign and Stamp)

GRID- MK-1, WSS Gramang

Gram Panchayat: Choparsa

Consent from Gram Panchayat

We the residents of CHOPARSA Gram Panchayat, District KULLU, 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




प्रधान
ग्राम पंचायत चौक
विकास समूह कुलु
जिला कुलु, हिमाचल प्रदेश
Panchayat

(Sign and stamp) District


Executive Engineer
Executive Engineer
Jal Shakti Division No-3
Kullu, DDO (Division)
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-1, WSS Masna**Gram Panchayat: Masna****Consent from Gram Panchayat**

We the residents of MASNA Gram Panchayat, District KULLU, 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


Executive Engineer
Executive Engineer
Jal Shakti Division No
Kullu, DDO Division 13
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-2, WSS Sarach, Kolibehar, Badah & Khalyani Padhar

Gram Panchayat: Kais

Consent from Gram Panchayat

We the residents of Kais Gram Panchayat, District Kullu, 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
Dle
Kais Gram Panchayat Kais Panchayat
Distt. Kullu (H.P.)

(Sign and stamp) District

gaw
Executive Engineer
Executive Engineer
JS Division No-1 Kullu

Division
Jai Shakti Vibhag
(Sign and Stamp)

GRID- MK-2, WSS Sarach, Kolibehar, Badah & Khalyani Padhar

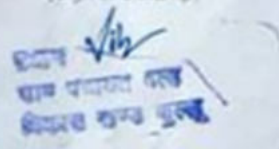
Gram Panchayat: Balh

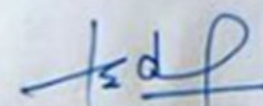
Consent from Gram Panchayat

We the residents of Balh Gram Panchayat, District Kullu 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
Balh Panchayat
District

(Sign and stamp)




Executive Engineer
Jai Shakti Division No. II
Kullu at Bhuntar, Distt. Kullu (H.P.)
Division
Jai Shakti Vibhag
(Sign and Stamp)

GRID- MK-2, WSS Sarach, Kolibehar, Badah & KhalyaniPadhar

Gram Panchayat: Gahar

Consent from Gram Panchayat

We the residents of Gahar Gram Panchayat, District Kullu, 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)

[Signature] District
दिनांक

[Signature]
Executive Engineer
JS Division No-1 Kullu

Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-2, WSS Sarach, Kolibehar, Badah&KhalyaniPadhar
Gram Panchayat: Bahara

Consent from Gram Panchayat

We the residents of Bahara Gram Panchayat, District Kullu 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 Bahara Panchayat _____ District _____

(Sign and stamp) _____

Executive Engineer
Jal Shakti Division No. II
Kullu at Bhuntar, Distt. Kullu (H.P.)
Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-2, WSS Sarach,Kolibehar,Badah&KhalyaniPadhar

Gram Panchayat: Karadsu

Consent from Gram Panchayat

We the residents of Karadsu Gram Panchayat, District Kullu, 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
Karadsu Panchayat



हस्ताक्षर
दिनांक

Raw
Executive Engineer
Jal Shakti Vibhag, Kullu

Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-6, WSS NarolgarsaDhara

Gram Panchayat: Garsa

Consent from Gram Panchayat

We the residents of GARSA Gram Panchayat District
KULLU 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 Remodeling of Rural Water supply schemes
commissioned prior 01.01.2010.

Gram Pradhan
Chitlaywan Paul Panchayat Garsa

Chitlaywan Paul District
(Signature)
KULLU जल शक्ति विभाग (वि.प.)

[Signature]
Executive Engineer
Jal Shakti Division No. II
Kullu at Bhuntar, Distt. Kullu (H.P.)
Division
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-6, WSS NeenuJaishtha

Gram Panchayat: Jeshta

Consent from Gram Panchayat

We the residents of Jeshta Gram Panchayat, District Kullu 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 Remodeling of Rural Water supply schemes commissioned prior 01.01.2010.

Gram Panchayat
District

and (stamp)
दिनांक 21/12/20


Executive Engineer
Jal Shakti Division No. II
Kullu at Bhuntar, Distt. Kullu (H.P.)
Division
Jal Shakti Vibhag
(Sign and Stamp)



GRID- MK-7, WSS SarchiBandalArkhaliPhagwana**Gram Panchayat: Sarachi****Consent from Gram Panchayat**

We the residents of Sarachi Gram Panchayat, District Kullu, 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.

Pradhan Gram Panchayat
District Kullu
(Sign and stamp)




Assistant Engineer
Jal Shakti Sub Division
Banjar

Executive Engineer
Jal Shakti Division
Kullu-II.
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-7, WSS SarchiBandalArkhaliPhagwana

Gram Panchayat: Chakurtha

Consent from Gram Panchayat

We the residents of CHAKURTHA Gram Panchayat, District Kullu, 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.

Pradhan Gram Panchayat
District Kullu

(Sign and stamp)



Assistant Engineer
Jal Shakti Sub Division


Executive Engineer
Jal Shakti Division
Kullu-II.
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-7, WSS Thatibir, Targali&Manglore etc

Gram Panchayat: Manglore

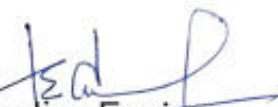
Consent from Gram Panchayat

We the residents of Manglore Gram Panchayat, District Kullu, 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.


Pradhan Gram Panchayat
District Kullu

(Sign and stamp)
जिला कूलू (H.P.)


Assistant Engineer
Jal Shakti Sub Division
Banjar


Executive-Engineer
Jal Shakti Division
Kullu-II.
Jal Shakti Vibhag
(Sign and Stamp)

GRID- MK-7, WSS Seraj


Gram Panchayat: Seraj

Consent from Gram Panchayat

We the residents of SERAJ Gram Panchayat, District Kullu, 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.

Pradhan Gram Panchayat
District Kullu

(Sign and stamp)


19/11/2020
प्रधान
ग्राम पंचायत
डि० ए० पंजाब
जिला कुल्लू (हि०प्र०)


Assistant Engineer
Jal Shakti Sub Division
Banjar


Executive Engineer
Jal Shakti Division
Kullu-II.
Jal Shakti Vibhag
(Sign and Stamp)

**GRID- MK-9, WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt.
Kullu**

Gram Panchayat: Khanni

Consent from Gram Panchayat

We the residents of Khanni Gram Panchayat, District Kullu 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  17-12-202
Gram Panchayat Khanni

(Sign and stamp) District

40/11/11
Executive Engineer

Division
Jal Shakti Vibhag
(Sign and Stamp)

**GRID- MK-9, WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt.
Kullu**

Gram Panchayat: Kohila

Consent from Gram Panchayat

We the residents of Kohila. Gram Panchayat, District Kullu., 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.



स्थानीय
दिनांक: 16/12/2020

Gram Pradhan

Gram Panchayat Kohila Panchayat

Kullu. District
(Sign and stamp)


Executive Engineer

Division
Jal Shakti Vibhag
(Sign and Stamp)

**GRID- MK-9, WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt.
Kullu**

Gram Panchayat: Kamand

Consent from Gram Panchayat

We the residents of Kamand Gram Panchayat, District Kullu, 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]
Gram Panchayat Kamand Panchayat

_____ District
(Sign and stamp)

[Signature]
Executive Engineer

Division
Jai Shakti Vibhag
(Sign and Stamp)

**GRID- MK-9, WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt.
Kullu**

Gram Panchayat: Buchhar

Consent from Gram Panchayat

We the residents of Buchhar Gram Panchayat, District Kullu, 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
Gram Panchayat Buchhar Panchayat

(Sign and stamp) [Signature] District
17/12/20

[Signature]
Executive Engineer

Division
Jal Shakti Vibhag
(Sign and Stamp)

**GRID- MK-9, WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt.
Kullu**

Gram Panchayat: Khanag

Consent from Gram Panchayat

We the residents of Khanag Gram Panchayat, District Kullu 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]
District Panchayat Khanag
(Sign and stamp) District

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

**GRID- MK-9, WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt.
Kullu**

Gram Panchayat: Deothi

Consent from Gram Panchayat

We the residents of Deothi Gram Panchayat, District Kullu, 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]
Deothi Panchayat

_____ District
(Sign and stamp)

[Signature]
Executive Engineer

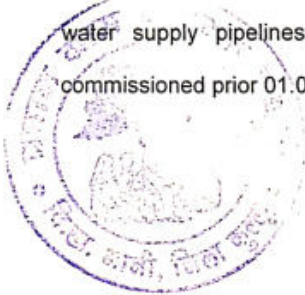
_____ Division
Jal Shakti Vibhag
(Sign and Stamp)

**GRID- MK-9, WSS Khanag, WSS NagotPalli, Parkot&KhadviKafti in Tehsil Anni Distt.
Kullu**

Gram Panchayat: Lajheri

Consent from Gram Panchayat

We the residents of Lajheri Gram Panchayat, District
Kullu, 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
2020
Gram Panchayat Lajheri Panchayat

(Sign and stamp) District

Executive Engineer
Executive Engineer

Division
Jal Shakti Vibhag
(Sign and Stamp)

**GRID- MK-12, WSS Koli, WSS ShanuJaterh, WSS Bail
Dharopa, WSS RemuKedas, WSS Chatti**

Gram Panchayat: Nirmand

Consent from Gram Panchayat

We the residents of NIRMAND, Gram Panchayat, District
KULLU, 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)

Executive Engineer

Division
Jal Shakti Vibhag
(Sign and Stamp)





Assistant Engineer
WH Sub Division Nirmand


**GRID- MK-12, WSS Koli, WSS ShanuJaterh, WSS Bail
Dharopa, WSS RemuKedas, WSS Chatti**


Gram Panchayat: Tawar

Consent from Gram Panchayat

We the residents of TWAR Gram Panchayat, District KULLU, 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 Remodeling of Rural Water supply schemes commissioned prior 01 01 2000.

Gram Pradhan  Panchayat
 District
(Sign and stamp)

Executive Engineer

Division
Jal Shakti Vibhag
(Sign and Stamp)

 Assistant Engineer
JPH Sub Division Nirmaland

**GRID- MK-12, WSS Koli, WSS ShanuJaterh, WSS Bail
Dharopa, WSS RemuKedas, WSS Chatti**

Gram Panchayat: Arsu

Consent from Gram Panchayat

We the residents of ARSU Gram Panchayat, District Kullu 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)

प्रस्तावक
दिनांक


Assistant Engineer
IPH S&D Division, Shimla


Executive Engineer
Division
Jal Shakti Vibhag
(Sign and Stamp)



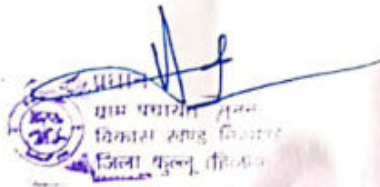
**GRID- MK-12, WSS Koli, WSS ShanuJaterh, WSS Bail
Dharopa, WSS RemuKedas, WSS Chatti**

Gram Panchayat: Tunan

Consent from Gram Panchayat

We the residents of Tunnan Gram Panchayat, District Kullu, 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
Tunnan ___ Panchayat
Kullu ___ District
(Sign and stamp)




Executive Engineer
Jai Shakti Division
Anni Distt. Kullu (H.P.)
Division Jai Shakti Vibhag
(Sign and Stamp)




Assistant Engineer
IPH Sub Division Nirmand

**GRID- MK-12, WSS Koli, WSS ShanuJaterh, WSS Bail
Dharopa, WSS RemuKedas, WSS Chatti**


Gram Panchayat: Gadejh

Consent from Gram Panchayat

We the residents of GADEGI Gram Panchayat, District
RULU 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 Remodeling of Rural Water supply schemes
commissioned prior 01.01.2000.

Gram Pradhan Gadej Sanyal Panchayat

(Sign and stamp) District



स्तावर
रनांक _____

Executive Engineer
[Signature]

Division
Jai Shakti Vahag
(Sign and Stamp)

[Signature]
Assistant Engineer
IPH Sub Division

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)	Name of the Landowner/ Donor	Khasra No.	Availability of Land Records/No Objection Certificate	Present Land Use of the plot	Involuntary Resettlement Impact
1	MK 6	WSS NaroIGarsaDhara	Proposed SR Nalashri	Bhallan	64	Mr. Khem Chand	1303	Yes	Unused Vacant Land	Nil
2	MK 7	WSS SarchiBandalArkhaliPhagwana	Proposed MBR Jauri	Chakurtha	64	Sh Narayan Singh	411	Yes	Unused Vacant Land	Nil
3	MK 7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Bihali	Bihali	64	Sh Gulab Chand	886	Yes	Unused Vacant Land	Nil
4	MK 7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Pataula	Thati Bir	64	Sh Hira Lal	131	Yes	Unused Vacant Land	Nil
5	MK 7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Marour	Thati Bir	64	ShYub Raj	768	Yes	Unused Vacant Land	Nil
6	MK 7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Sukaribir	Thati Bir	81	Sh Jeet Ram	830	Yes	Unused Vacant Land	Nil
7	MK 7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Chakurtha	Chakurtha	64	Sh Gian Chand	1425	Yes	Unused Vacant Land	Nil
8	MK 7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Bagadhar	Chakurtha	81	ShMaydhar Sharma	772	Yes	Unused Vacant Land	Nil
9	MK 7	WSS SarchiBandalArkhaliPhagwana	Proposed SR Ruhan	Chakurtha	64	Sh Mehar Chand	152/1	Yes	Unused Vacant Land	Nil



S.No .	Grid	Scheme Name	Proposed component	Name of Village/ Tehsil	Required area (sqm)	Name of the Landowner/ Donor	Khasra No.	Availability of Land Records/No of Objection Certificate	Present Land Use of the plot	Involuntary Resettlement Impact
10	MK 7	WSS Thatibir, Targali&Manglore	Proposed SR Manglore	Ratwah	64	Sh Khem Singh	805	Yes	Unused Vacant Land	Nil

Source: Site Visits and Consultations

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 Affect ed Plot	Type of House	Category	AP L/ BPL	Assets	Whether any vulnerability	Photograph
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Sh. Khem Chand	5	1303	20100	64	11129	0.58	Unuse d vacant Land	NIL	Agricultur e	NIL	12000	2400	NIL	Pucca House	GEN	APL	Pucca house, 1 smart phone, 1 non-smart phone, 1 two-wheeler, cycle	No	
2	Sh. Narayan Singh	3	411	9700	64	9700	0.66	Unuse d vacant Land	NIL	Agricultur e	NIL	37000	12333	NIL	Wood en House	GEN	APL	Wood en house, 1 smart phone, 1 non-smart phone, 1 four-wheeler, 1 two-wheeler, couch, dining table	No	
3	Sh. Gulab Chand	6	886	5600	64	5600	1.15	Unuse d vacant Land	NIL	Agricultur e	NIL	18000	3000	NIL	Wood en House	GEN	APL	Wood en house, 1 smart phone, 1 non-smart phone, 1 four-wheeler, 1 two-wheeler, couch, dining table	No	

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 Affect ed Plot	Type of House	Category	AP L/ BPL	Assets	Whether any vulnerability	Photograph
4	Sh. Hira Lal	4	131	2833	64	2933	2.26	Unuse d vacant Land	NIL	Agricultur e	NIL	8000	2000	NIL	Wood en House	GEN	APL	Wood en house, 1 smart phone, bicycle	No	
5	Sh. Yub Raj	4	768	3200	64	3200	2	Unuse d vacant Land	NIL	Agricultur e	NIL	8000	2000	NIL	Pucca House	GEN	APL	Pucca House , 1 smart phone, 1 two-wheeler, cycle	No	
6	Sh. Jeet Ram	11	830	4045	81	4045	2	Unuse d vacant Land	NIL	Agricultur e	NIL	20000	1818	NIL	Wood en House	GEN	APL	Wood en house, 1 smart phone, 1 two-wheeler, couch, dining table	No	
7	Sh. Gian Chand	4	1425	23470	64	23470	0.3	Unuse d vacant Land	NIL	Agricultur e	NIL	60000	15000	NIL	Wood en House	GEN	APL	Wood en house, 1 smart phone, 1 four-wheeler, 1 two-wheeler, dining table, couch	No	
8	Sh. Mayadhar Sharma	6	772	9700	81	9700	0.8	Unuse d vacant Land	NIL	Agricultur e	NIL	12000	2000	NIL	Wood en House	GEN	APL	Wood en house, 1 smart phone, one two-wheeler	No	

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 Affect ed Plot	Type of House	Category	AP L/ BPL	Assets	Whether any vulnerability	Photograph
																		er, cycle		
9	Sh. Meher Chand	5	152/1	6400	64	6400	1	Unuse d vacant Land	NIL	Agricultur e	NIL	12000	2400	NIL	Wood en House	GEN	APL	Wood en house, 1 Smart phone, 1 two wheel er, couch	No	
10	Sh. Khem Singh	3	805	1214	64	1214	5.27	Unuse d vacant Land	NIL	Agricultur e	NIL	6300	2100	NIL	Wood en House	GEN	APL	Wood en house, 1 smart phone, cycle, table	No	

Source: Site Visits and Consultations

GRID MK-6

Proposed SR Nalashri

Consent from Land Owner

I, Khem Chund son/daughter of Jay Chund
 an/a permanent Resident of Ward no 04 Tehsil and District
Kullu Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own
 land comprising of Khasra No: 1303 I hereby give
 my consent to donate 6-18-00 Sq. of Land to the Jal Shakti Vibhag Himachal Pradesh for
 construction of Bija component under **Renovation and**
Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Signature of Land Owner प्रधान
ग्राम पंचायत गैडसा
दे.क. कल्लु जिला कल्लु हि.प्र.

I [Signature] Panchayat

Shri. Jag Raj
 Vill Nalashri P.O. Gujra
 Teh. Shimla Dist. Kullu
 (Sign and Stamp)

Executive Engineer [Signature]
 Executive Engineer
 Jal Shakti Division No. II
 Kullu at Bhuntar, Distt. Kullu (H.P.)
 Jal Shakti Vibhag
 (Sign & Stamp)

GRID MK-7

Proposed MBR jauri

Consent from Land Owner

I, Mansoor Singh son/daughter of Devi Ram
am a permanent Resident of Ward no 3, Jauri Tehsil and District
Bhujar, Kullu Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own
land comprising of Khasra Nos 411 I hereby give
my consent to donate 647 m² of Land to the Jal Shakti Vibhag Himachal Pradesh for
construction of MBR Jauri component under **Renovation and
Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.**

Mansoor Singh
Signature of Land Owner

[Signature]
Gram Pradhan

1. _____ Panchayat
2. _____

(Sign and Stamp)

hcm
Assistant Engineer
Jal Shakti Sub Division
Bharjar

[Signature]
Executive Engineer
Executive Engineer
I.P.H. Division No-II, _____ Division
Kullu at Bhunter

Jal Shakti Vibhag

(Sign & Stamp)

GRID MK-7

Proposed SR Bihali

Consent from Land Owner

1. Gulab Chand son/daughter of sh. Thabe Ram
 am a permanent Resident of Ward no 02, Shikaribif Tehsil and District
_____ Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own
 land comprising of Khasra Nos. 886 I hereby give
 my consent to donate 64 m² of Land to the Jal Shakti Vibhag Himachal Pradesh for
 construction of SR-Bihali component under **Renovation and**
Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Signature of Land Owner

1. Gulab Chand2. Gulab Chand

[Signature]
 Gram Pradhan

 Panchayat

(Sign and Stamp)

[Signature]
 Assistant Engineer
 Jal Shakti Sub Division
 Banjar

[Signature]
 Executive Engineer
 Executive Engineer
 I.P.H. Division No-II, _____ Division
 Kullu at Bhunter
 Jal Shakti Vibhag
 (Sign & Stamp)

GRID MK-7

Proposed SR Marour

Consent from Land Owner

I, Yub Raj son/daughter of Bhagban Dass

am a permanent Resident of Ward no 1, Basagean Tehsil and District Bangas, Kullu Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own land comprising of Khasra Nos. 768 I hereby give

my consent to donate 64 m² of Land to the Jal Shakti Vibhag Himachal Pradesh for construction of SR Maroud component under **Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.**

Yub Raj
Signature of Land Owner

[Signature]
Gram Pradhan

1. _____ Panchayat
2. _____

(Sign and Stamp)

hann
Assistant Engineer
Jal Shakti Sub Division

[Signature]
Executive Engineer
I.P.H. Division No-II,
Kullu at Bhunter _____ Division

Jal Shakti Vibhag

(Sign & Stamp)

GRID MK-7

Proposed SR Sukaribir

Consent from Land Owner

I, Jeet Ram son/daughter of sh. Mati Ram

am a permanent Resident of Ward no 03, Shahila Tehsil and District

Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own

land comprising of Khasra Nos. 830 I hereby give

my consent to donate 81 m² of Land to the Jal Shakti Vibhag Himachal Pradesh for

construction of SR-Shikaribir component under **Renovation and**

Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

Jeet Ram
Signature of Land Owner

1. Jeet Ram

2. _____



_____ Panchayat

(Sign and Stamp)

haun
Assistant Engineer
Jal Shakti Sub Division
Banjar

Jeet Ram
Executive Engineer
Executive Engineer
I.P.H. Division No-II _____ Division
Kullu at Bhunter

Jal Shakti Vibhag

(Sign & Stamp)

GRID MK-7

Proposed SR Chakurtha

Consent from Land Owner

I, Girish Chand son/daughter of KMUR Ram

am a permanent Resident of Ward no 4, Chakurtha Tehsil and District Banjar, Kullu Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own land comprising of Khasra Nos. 1425 I hereby give

my consent to donate 642m m² of Land to the Jal Shakti Vibhag Himachal Pradesh for construction of SR Chakurtha component under **Renovation and Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.**

Girish Chand
Signature of Land Owner

Amanta
प्रधान
ग्राम पंचायत चकुरथा
Gram Pradhan

1. _____ Panchayat
2. _____

(Sign and Stamp)

hans
Assistant Engineer -
Jal Shakti Sub Division
Dangar

Edf
Executive Engineer
Executive Engineer
I.P.H. Division No-II _____ Division
Kullu at Dhuner
Jal Shakti Vibhag
(Sign & Stamp)

GRID MK-7

Proposed SR Bagadhar

Consent from Land Owner

I Maya dhar Sharma son/daughter of Om datt
am a permanent Resident of Ward no 2 Plagwana Tehsil and District
Banyas kulla Himachal Pradesh do hereby solemnly affirm and declare that I jointly own
land comprising of Khasra Nos 772 I hereby give
my consent to donate 812m m² of Land to the Jal Shakti Vibhag Himachal Pradesh for
construction of SR Bagadhar component under **Renovation and
Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.**

[Signature]

Signature of Land Owner



Gram Pradhan

1 _____ Panchayat
2 _____

(Sign and Stamp)

[Signature]
Executive Engineer
Jal Shakti Vibhag
Kullu at Bhunter

[Signature]
Executive Engineer
I.P.H. Division No-II, _____ Division
Kullu at Bhunter
Jal Shakti Vibhag

(Sign & Stamp)

GRID MK-7

Proposed SR Ruhan

Consent from Land Owner

1. Mehar Chand son/daughter of sh. Swati Ram

am a permanent Resident of Ward no. 05. Vill Ghosli Po. Thet, Bix Tehsil and District Kullu Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own

land comprising of Khasra Nos. 152/1 I hereby give

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

Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.

[Signature]
Signature of Land Owner

[Signature]
Gram Pradhan
(2020)

1. [Signature]

_____ Panchayat

2. _____

(Sign and Stamp)

[Signature]
Assistant Engineer
Jal Shakti Sub Division
D Banjar

[Signature]
Executive Engineer
Executive Engineer
I.P.H. Division No-II, _____ Division
Kullu at Bhunter

Jal Shakti Vibhag

(Sign & Stamp)

GRID MK-7

Proposed SR Manglore

Consent from Land Owner

I, Khem Singh son/daughter of Sh. Megh Singh
am a permanent Resident of Ward no 3, Manglor Tehsil and District
Banjor, Kullu Himachal Pradesh, do hereby solemnly affirm and declare that I jointly own
land comprising of Khasra Nos. 805 I hereby give
my consent to donate SR Manglor 64 m² of Land to the Jal Shakti Vibhag Himachal Pradesh for
construction of SR Manglor component under **Renovation and
Remodelling of Rural Water supply schemes commissioned prior 01.01.2000.**

Signature of Land Owner

Gram Pradhan

1. [Signature]
2. _____

_____ Panchayat
[Signature]

(Sign and Stamp)

[Signature]
Executive Engineer
Executive Engineer
I.P.H. Division No-II, _____ Division
Kullu at Blunter
Jal Shakti Vibhag
(Sign & Stamp)

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

(A) Grid MK 2- Proposed WTP Jhakru Gharat MohalKhad

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



(B) Grid MK 2- Proposed WTP at Badah

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



(C) Grid MK 2- Proposed WTP at Seobagh

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



(D) Grid MK 2- Proposed WTP at Kot Dhar

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



(E) Grid MK 2- Proposed WTP at Ghot

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



(F) Grid MK 2- Proposed WTP at Bandrol

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



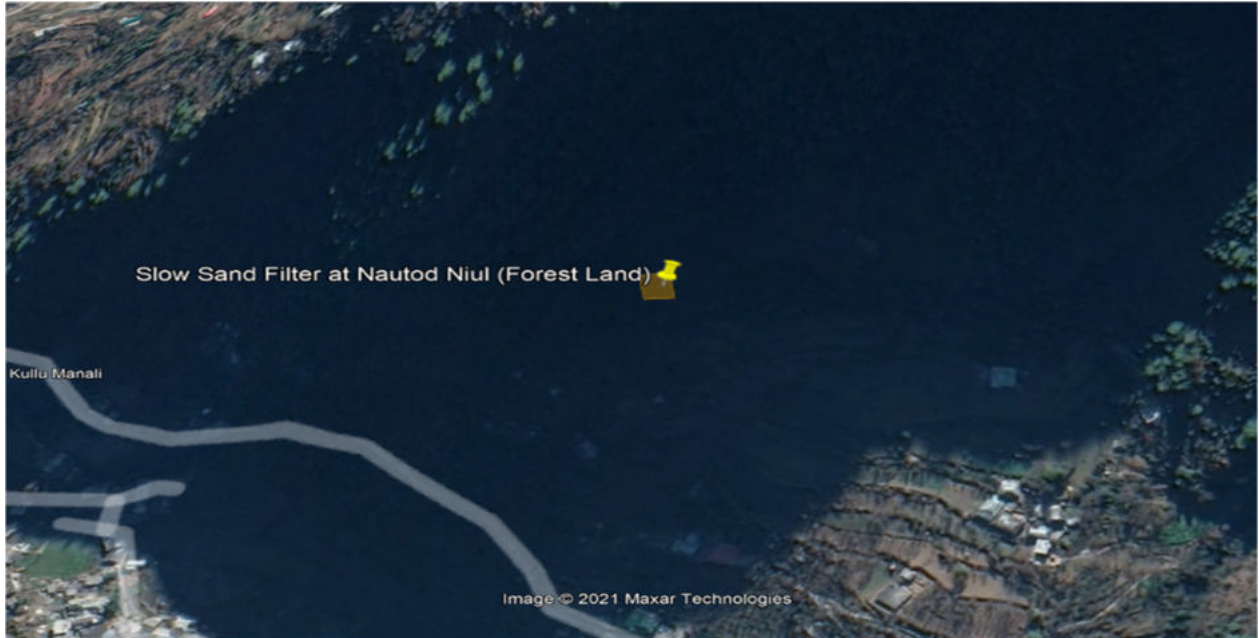
(G) Grid MK 6- Proposed WTP at Jaishtha

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



(H) Grid MK 6- Proposed WTP at NautodNiul

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



(I) Grid MK 6- Proposed WTP at Naroul

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



(J) Grid MK 7- Proposed WTP at Shida

मौलिक लक्ष्य नकल अन्तर्गत शिडा नदीका माथो खण्डको कोषी माथिलो तटमा
व-बोर्ड जिला अन्तर्गत विभाजन प्रयोग

उपमात्रा व
दिशा व
२० कर्म प्रती
ई.स

श्रीमानजी

अनुमान एका तर्फदेः

१. खण्ड एका अन्तर्गत किन पेशद तर्फमा शिडा नदी अन्तर्गत किन हो
२. खण्ड एका WTP Shida, Pump house लक्षितकर्ता बन्नु पर्लाओन हो
३. खण्ड एकाको कोषी अन्तर्गत बाई, बाईबा नदि, खण्डको न नदी हुन्थो
४. खण्ड एकाको माथो खण्डको कोषी लक्षित हो

सुकाय सिद्धा
WTP Shida
Pump house Shida

हाउस गुरु

खण्डको अन्तर्गत
खण्डको अन्तर्गत
१-५-१५
व-बोर्ड अन्तर्गत

सावको	हाल
अन्तर्गत	५५१
माथो २५५	७०
	१

५२(१५+५)
२ = ५५५

श्रीमानजी

आपको कार्यालय आदेशानुसार ७८३-८५/१०० दिनांक १५/०५/२०१५ मा ल्याने हो अनुमानमा
आदेशानुसार तर्फमा नदीको लोच हातमा नदीको कोषी
अन्तर्गत लक्षित हो तर्फमा हो

१५/०५/२०१५



(K) Grid MK 9- Proposed WTP at Joan Khad

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



(L) Grid MK 9- Proposed WTP at Bargod

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



(M) Grid MK 9- Proposed WTP at LohalRiun

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



(N) Grid MK 9- Proposed WTP near SR Khadvi

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



(O) Grid MK 12- Proposed WTP at Pujarilanj

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



(P) Grid MK 12- Proposed WTP at Siswaser

- (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

MK2: Proposed alignment of Rising Main along SH 29 (100-200 mm)



MK 9: Proposed alignment of Gravity Main along NH 305 (150-200mm)



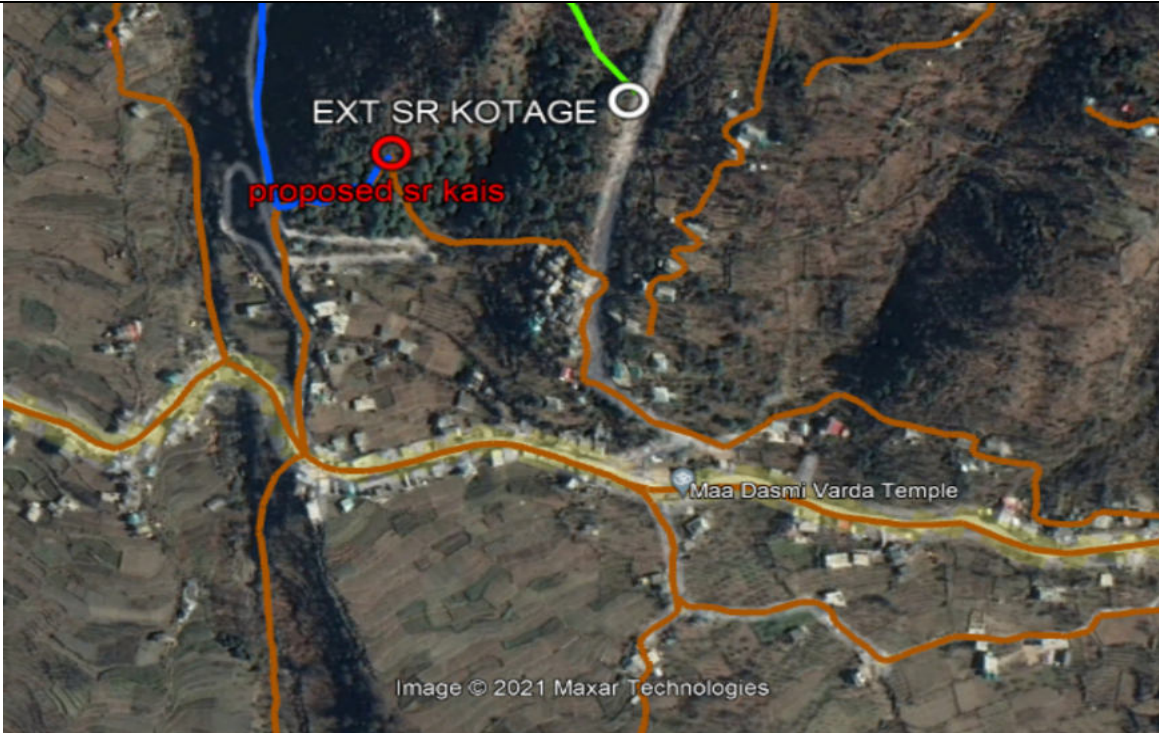
MK-9: Proposed Distribution network along NH 305 (80-125mm)



MK 9: Proposed Distribution network along NH 305 (80-125mm)



MK-2: Proposed distribution Network on State Highway 29



MK-2: Proposed DN on State Highway 29



Appendix 8: Sample Survey: Analysis of Indicative Pipeline Alignments at Various Locations in MZ01

Grid MK-7: GravityMain alignment crossing khad via bridge



Grid MK 6: Alignment of Gravity Main from SR along village roads.



Grid MK 2: Alignment of Gravity Main from proposed SR Tandala along forest trails



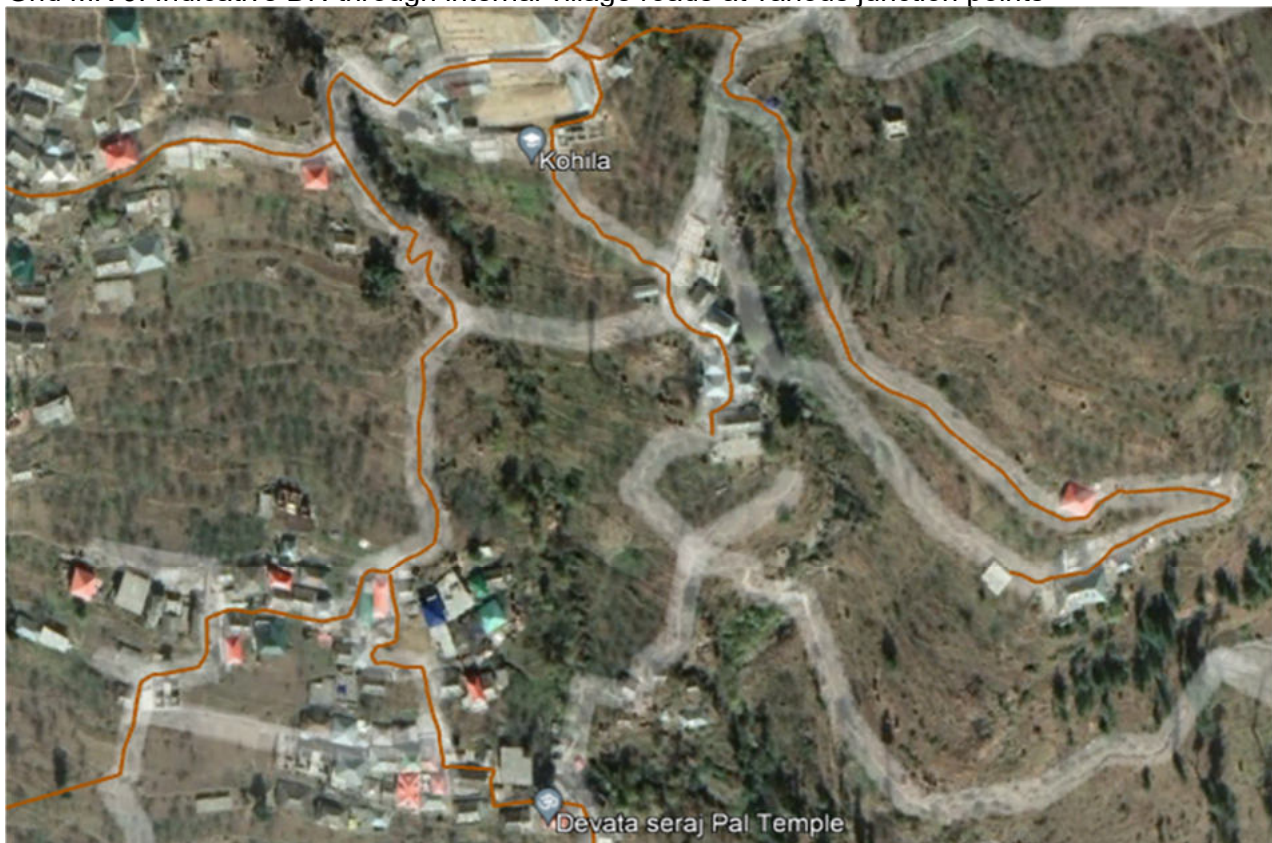
Grid MK2: Alignment of DN through Kaccha pathways and Junctions



Grid MK 1: Indicative DN through internal village roads at various junction points



Grid MK 9: Indicative DN through internal village roads at various junction points

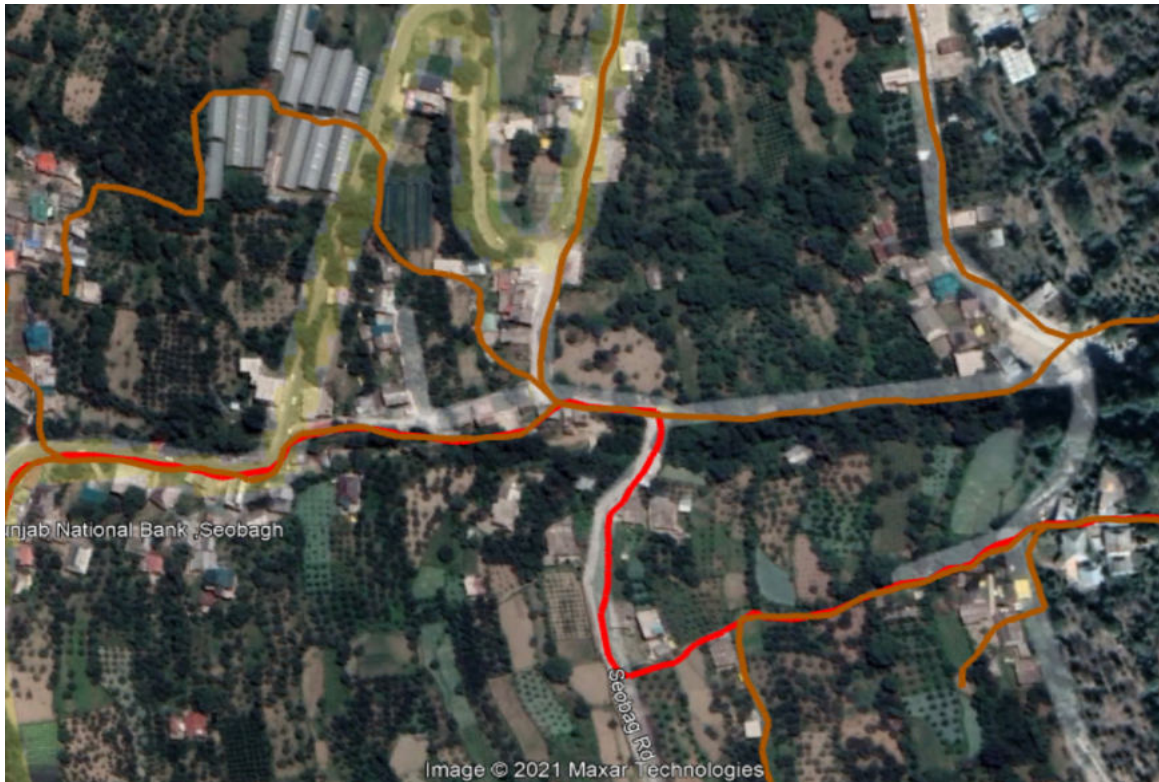


MS 6: Indicative Distribution Network through internal village roads at various junction points



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

1. MK-2: Rising Main and Distribution Network at Market Place on Seobagh Road



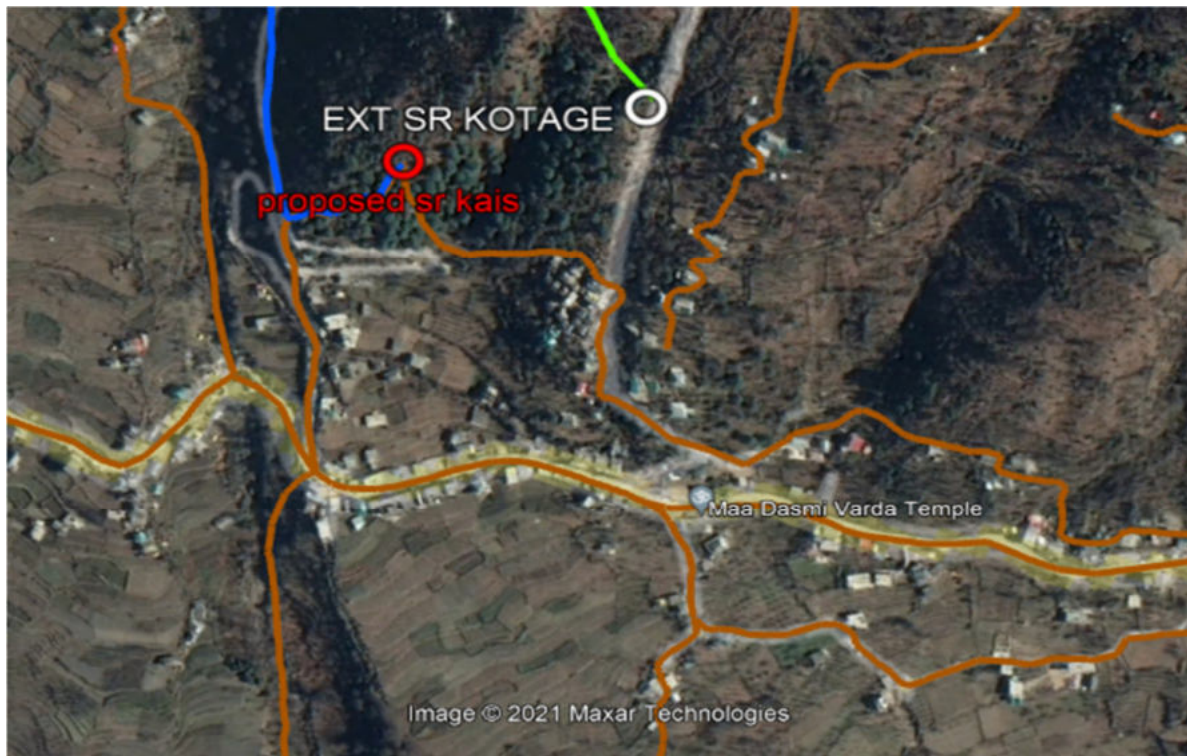


2. MK 2: Gravity Main (80-100 mm) and Distribution Network on SeobaghMarg





3. MK 2: Distribution Network at Market Place on SH 29 (50-100 mm)



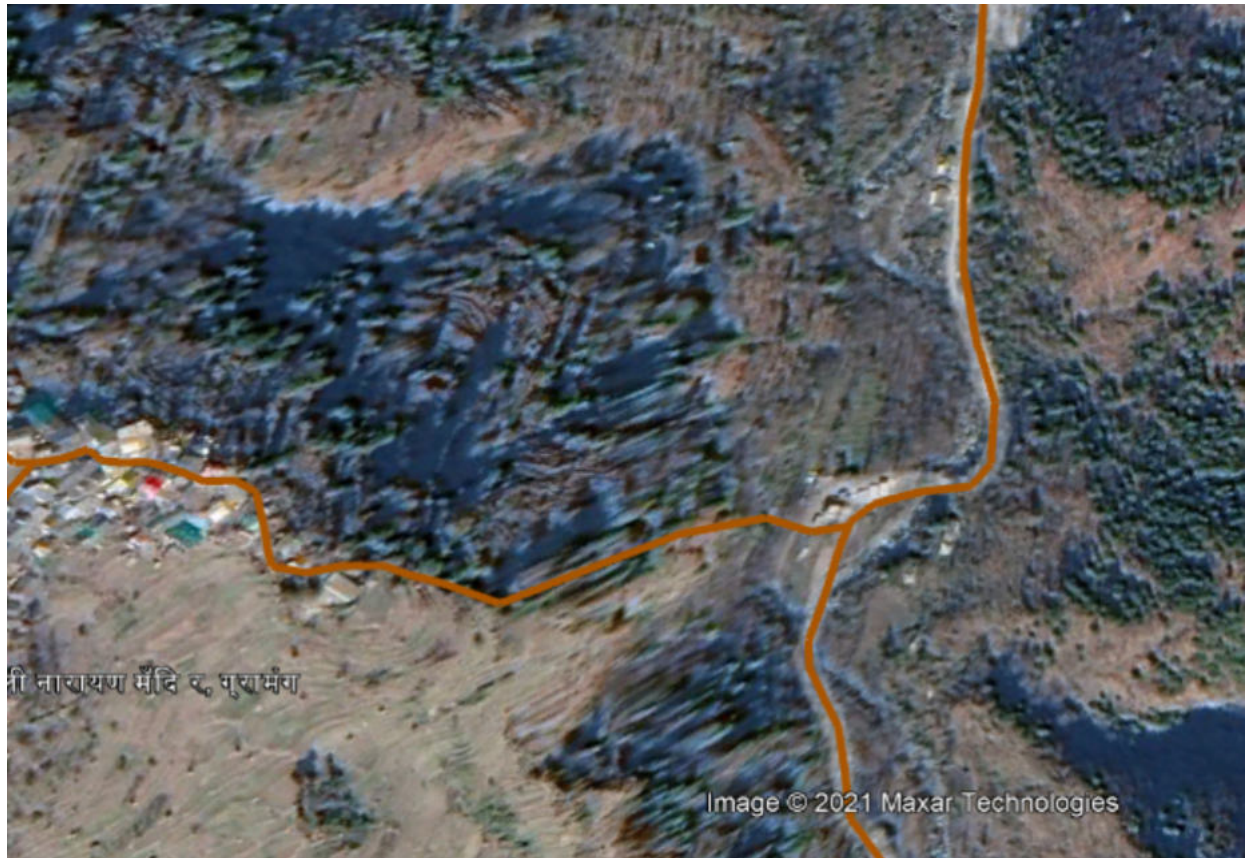


4. MK-2: Distribution Network and Gravity Main at Market Place near kais





5. MS-2: Distribution Network at Market Place on Salangh Project Road





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 table9-1 and discussed below:

GRID MK 1: There are Twelve (12) spring sources proposed:

The lean period discharge observed in different spring sources are 1.20 LPS for WSS Samalang, 1.15 LPS, 1.80 LPS, 1.50 LPS, 1.00 LPS, 1.20 LPS and 1.00 LPS for WSS Mashna, 2.00 LPS for WSS Gramang, 1.50 LPS, 1.10 LPS and 1.50 LPS for WSS DughilagShildhari and 1.50 LPS for WSS Phallan. The lean period discharge of the existing spring sources is enough to cater the future water demand of 0.23 LPS, 0.15 LPS, 0.33 LPS, 0.16 LPS, 0.11 LPS, 0.14 LPS, 0.14 LPS, 0.34 LPS, 0.77 LPS, 0.77 LPS, 0.25 LPS and 0.91 LPS respectively. There is no further downstream abstraction from any of the sources therefore no water conflict will arise.





GRID MK 2: There are a total of 6 sources proposed in Grid MK2.

Source- Borewell Opposite Bandrol: The lean period discharge available at proposed borewell is 17.10 LPS. The source has enough yield to meet the water demand of the ultimate design year i.e., 2042 which is 4.5 LPS. Feasibility report was obtained from senior hydrologist measuring the potential yield of borewell by Electrical resistivity method and the same is attached in the report. As ground water is utilised, no conflict will arise with any community.



Source- Borewell at Seobagh: The lean period discharge available at proposed borewell is 4.56 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 2.55 LPS. Feasibility report was obtained from senior hydrologist measuring the potential yield of borewell by Electrical resistivity method and the same is attached in the report. As ground water is utilised, no conflict will arise with any community.



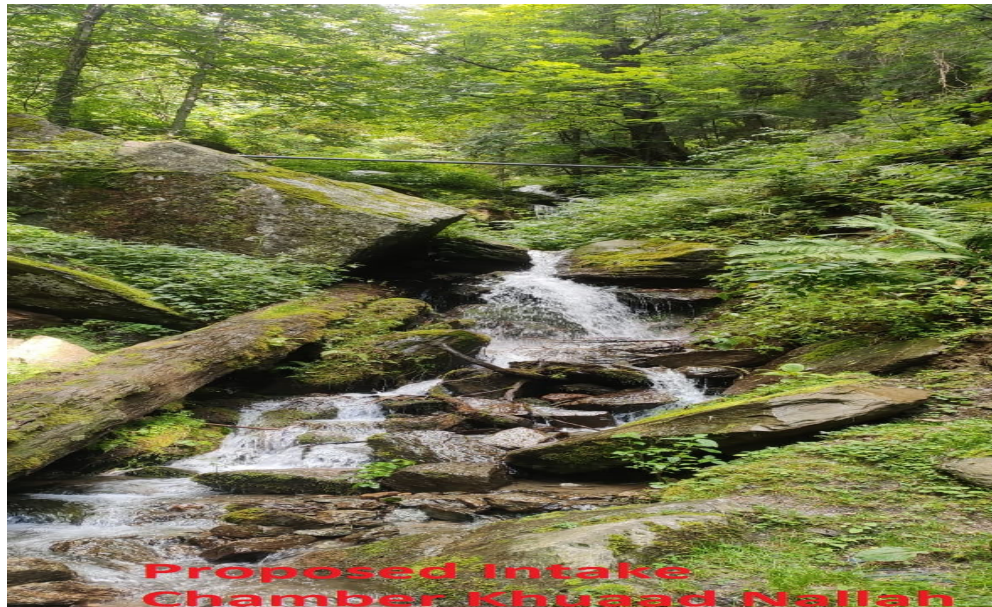
Source- Borewell at Badah near river Beas: The lean period discharge available at proposed borewell is 5 LPS for 8 hours of pumping. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 4.9 LPS. Feasibility report was obtained from senior hydrologist measuring the potential yield of borewell by Electrical resistivity method and the same is attached in the report. As ground water is utilised, no conflict will arise with any community.



Source- Borewell at Jhakru Gharat near MohalKhad: The lean period discharge available at proposed borewell is 1.20 LPS for 8 hours of pumping. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 0.86 LPS. Feasibility report was obtained from senior hydrologist measuring the potential yield of borewell by Electrical resistivity method and the same is attached in the report. As ground water is utilised, no conflict will arise with any community.



Source- Proposed Intake Chamber at Khuad Nallah: The lean period discharge available at proposed surface water source is 3.5 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 3.27 LPS. After the abstraction of water at proposed location Khuad nallah merges with another Khad and no further downstream abstraction takes place therefore no further conflict will arise.



Source- Proposed Intake Chamber at Kais Nallah: The lean period discharge available at proposed surface water source is 11 LPS (Source is Being used for irrigation and only limited discharge can be used for the scheme). The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 1.02 LPS. After the abstraction of water at proposed location Kais nallah merges with another Khad and no further downstream abstraction takes place therefore no further conflict will arise.



GRID MK 6: There are a total of 2 sources proposed in Grid MK6.

Source- Proposed Springs and Nallah Source: There are three proposed spring sources i.e., Narali, Baggi and Regada spring and one proposed nallah i.e., Regada nallah. These proposed sources have enough lean period discharge of 0.8 LPS, 1.0 LPS, 0.8 LPS and 1.54 LPS to meet the water demand of the ultimate design year i.e., 2042 which is 0.83 LPS and 1.49 LPS. The proposed sources are already serving the same command area therefore there will not have any impact on downstream flow, users and ecosystem and there will be no water use conflict.

Source- Proposed Head Weir at Sotak Nallah: The lean period discharge available at proposed surface water source is 1.5 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 0.83 LPS. The proposed source is small nallah source identified by JSV department considering the facts that the augmentation of same for water supply will not have any impact on downstream flow, users and ecosystem and there will be no water use conflict.



GRID MK 7: There are a total of 2 sources proposed in Grid MK7.

Source- Proposed Diversion Spur at TirthanKhad: The lean period discharge available at proposed surface water source is 5,660 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 3.76 LPS. Abstraction of water is less than 1% so there will be no impact on downstream flow, users, ecosystem, and there will be no water use conflict.



GRID MK 9 There are a total of 4 sources proposed in Grid MK9.

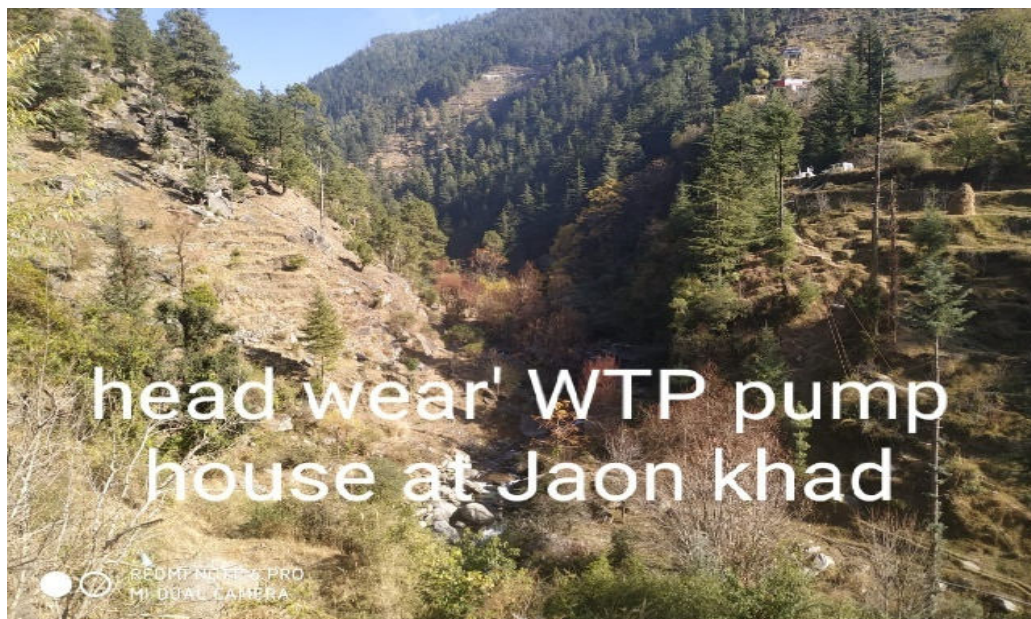
Source- Proposed Head weir on Lohal Nallah: The lean period discharge available at proposed surface water source is 2.5 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 1.08 LPS. The source is an existing source and will not have any impact on downstream flow, users and ecosystem and there will be no water use conflict.



Source- Proposed Head weir on Shaun Nallah: The lean period discharge available at existing surface water source is 2 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 0.41 LPS. The source is an existing source and will not have any impact on downstream flow, users and ecosystem and there will be no water use conflict.



Source- Proposed Diversion Spur on Joan Khad: The lean period discharge available at proposed surface water source is 100 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 6.71 LPS. Abstraction of water is less than 7% and the proposed source is identified by JSV department considering the facts that the augmentation of same for water supply will not have any impact on downstream flow, users and ecosystem and there will be no water use conflict.



Source- Proposed Head weir on BhargolKhad: The lean period discharge available at proposed surface water source is 3 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 1.5 LPS. The proposed source is identified by JSV department considering the facts that the augmentation of same for water supply will not have any impact on downstream flow, users and ecosystem and there will be no water use conflict.



GRID MK 12 There are a total of 2 sources proposed in Grid MK12.

Source- Proposed Diversion Spur on KurpanKhad: The lean period discharge available at proposed surface water source is 1038 LPS. The source has enough discharge to meet the water demand of the ultimate design year i.e., 2042 which is 11.53 LPS. Abstraction of water is less than 1% and the proposed source is identified by JSV department considering the facts that the augmentation of same for water supply will not have any impact on downstream flow, users and ecosystem and there will be no water use conflict.



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.

Seven (7) head weirs are proposed under the MZ01 (District Kullu) of Mandi zone subproject. The details are exhibited in table 10-1 below:

Table 10-1: Details of Headweirs in MZ01

S.No.	Proposed Headwork Arrangement at Water Supply Source	Coordinates of Head Weirs	Length/ Height of Head Weir	Lean Period Discharge as the certificate received from JSV	Water Demand	Working Principle
1.	Head Weir with Rectangular chamber on Sotak Nallah	31°53'4.57"N, 77°15'23.58"E.	25 m/ 1 m	1.5 lps	0.75 lps	The proposed height of head weir is 1 m from the bed level of stream which is the medium flow level of the stream, the arrangement of head weir will provide the sufficient water retention depth at upstream to divert the water from upstream to proposed sump well through proposed rectangular
2.	Diversion spur with Rectangular chamber on TirthanKhad	31°40'55.25"N, 77°17'11.62"E.	40 m/ 1 m	5660 lps	6.8 lps	
3.	Diversion Spur with Rectangular chamber on Joan Khad	31°28'35.66"N, 77°27'18.61"E.	35 m/ 1 m	100 lps	6.71 lps	

S.No.	Proposed Headwork Arrangement at Water Supply Source	Coordinates of Head Weirs	Length/ Height of Head Weir	Lean Period Discharge as the certificate received from JSV	Water Demand	Working Principle
4.	Head Weir with Rectangular chamber on BhargodKhad	31°31'24.95"N, 77°23'44.44"E.	30 m/ 1 m	3 lps	0.41 lps	channel by gravity. Once the water retention is achieved, the water in upstream will flow above the head weir to maintain regular flow at downstream.
5.	Head Weir with Rectangular chamber on Shaun Nallah	31°29'0.83"N, 77°29'13.60"E.	15 m/ 1 m	2 lps	1.5 lps	
6.	Head Weir with Rectangular chamber on Lohal Nallah	31°31'39.87"N, 77°22'57.33"E.	10 m/ 1 m	2.5 lps	1.08 lps	
7.	Diversion Spur on KurpanKhad	31°34'3.37"N, 77°34'40.59"E.	50 m/ 1 m	1038 lps	11.53 lps	

Table 10-2 : Details of Sources, Yield and Water Demand for the Year 2042

Grid	Source Type	Yield (LPS)	Water Demand (LPS) for 2042_	% of Water Abstraction
MK1	Roe Age Spring	1.2	0.21	17.50
	Phalas Spring	1.15	0.41	35.65
	Chicham Spring	1.8	0.31	17.22
	Thach Nala Spring -1	1	0.15	15.00
	Thach Nala Spring -2	1.5	0.09	6.00
	Mashna Nala Spring	1	0.13	13.00
	Mashna Nala Spring	1.2	0.13	10.83
	Kala Pani (Telang Nala) Spring	2	0.31	15.50
	Chhaya Pani Spring	1.5	0.71	47.33
	Pawanag Spring	1.1	0.71	64.55
	Naya pani spring	1.5	0.23	15.33
	Mankhan (Suragmani) Spring	1.5	0.84	56.00
		16.45	4.23	25.71
MK2	Bore Well at Jhakru	1.2	0.86	71.67
	Bore Well at Badah	5	4.9	98.00
	Bore Well Seobagh,	4.56	2.55	55.92
	Kais Nala	11	1.02	9.27
	Khuad Nala Spring	3.5	3.27	93.43
	Bore Well at Opposite Bandrol	17.1	4.5	26.32
		42.36	17.1	40.37
MK6	Baggi spring	0.8	1.65	50.00
	Narali spring	1		
	Sotak Nala	1.5		
	Julie nala spring	0.7	1.5	49.34
	Rehegda spring	0.8		
	Rehegda nala	1.54		
		6.34	3.15	49.68
MK7	Spring, Bani Naal	0.82	1.49	32.25
	Spring Barnaal	1.3		
	Spring, Lambhari	1		
	Spring Lambhari-1	1		

Grid	Source Type	Yield (LPS)	Water Demand (LPS) for 2042_	% of Water Abstraction
	Spring Naga Naal	0.5		
	Tirthan Khad	5660	3.76	0.07
		5664.62	5.25	0.09
MK9	Joan Khad	100	6.71	6.71
	Shaun Nallah	2	0.41	20.50
	Lohal Nallah	2.5	1.08	43.20
	Bhargol Khad	3	1.5	50.00
		107.5	9.7	9.02
MK12	Kurpan Khad	1038	11.53	1.11
	Patagi Spring	1.6	0.97	60
		1039.6	12.50	1.20
	Total	6876.87	51.93	0.75

Water bodies present in the area are Beas River, Satluj River, Parvati River, TirthanKhad, SaravriKhad, KurphanKhad, BhargolKhad and Joan Khad, and other small khads, nallahs and spring sources. Maps showing these river courses, tributaries, and proposed intake/check dam location etc are given in Figure 21.

Water sources proposed in MZ-01 are TirthanKhad, Joan Khad, Shaoun Nallah, Khaud Nallah, Kais nallah, Sotak Nallah, Lohal Nallah, Bhargol Nallah and KurpanKhad

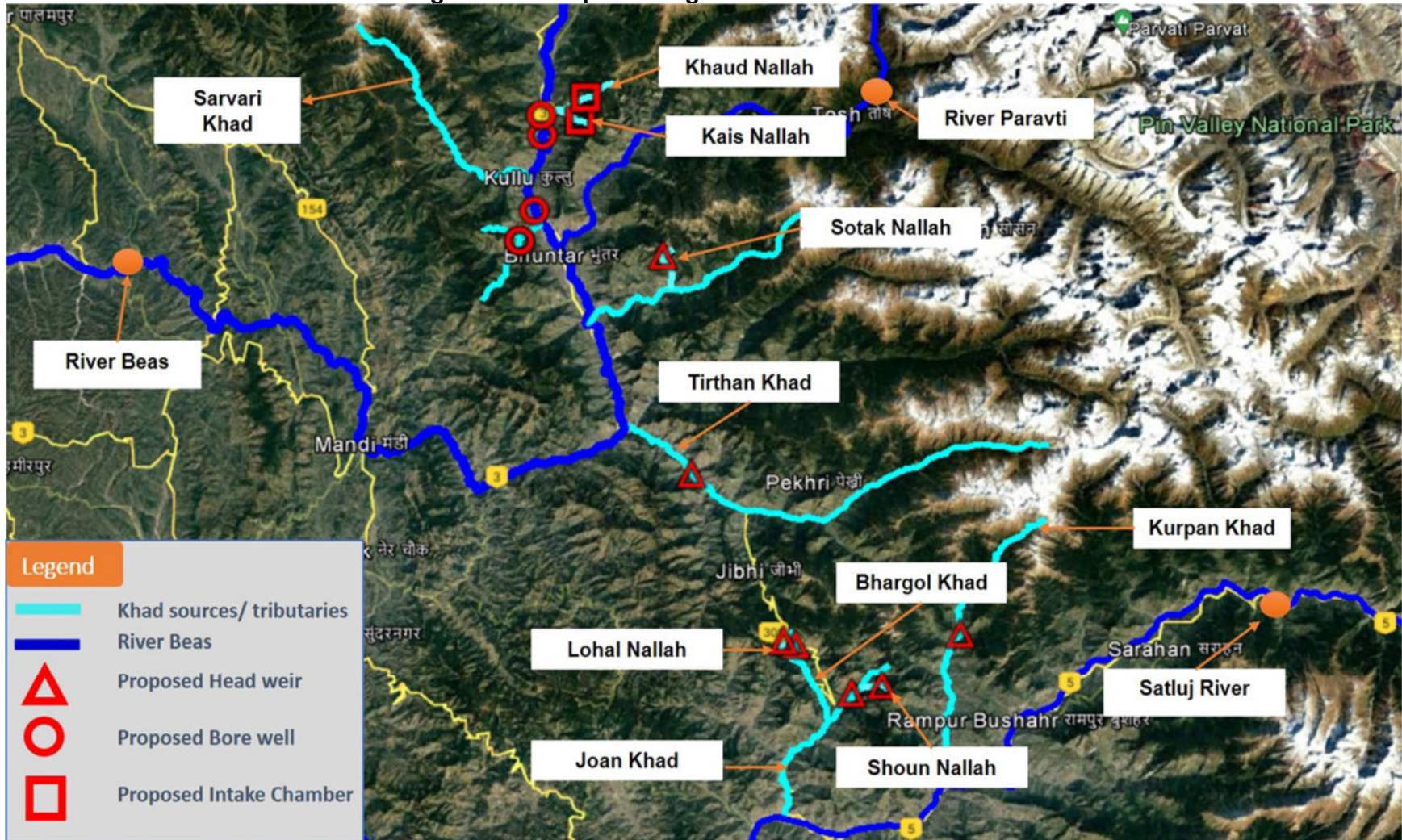
- (i) Beas River: Beas river is a snow and rain fed perennial river of length 470 km. Beas river originates from Beas kund near Manali and merges into river Satluj near Kapurthala. Major tributaries of Beas are Tirthan river, Parvati river, NeugalKhad, Gaj Khad etc. Its catchment area consists of parts 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.
- (ii) 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.
- (iii) Parvati River: Parvati river is snow fed river of length ~80 km, River Parvati originates from Parvati paravat and merges with river Beas near Kullu. Tributaries

- of river are small khads and springs, having catchment area of parts of Kullu district.
- (iv) TrithanKhad:TirthanKhad is a snow fed khad of length ~50 km, TirthanKhad originates from near Srikant Mahadev and merges with river Beas near Larji at about 30 km downstream of Kullu. TirthanKhad contributes water from various small khads and springs in the catchment area. Catchment area of the khad comprises of parts of Kullu district.
 - (v) SaravariKhad:SaravariKhad is a snow fed khad of length ~30 km, SaravariKhad originates from near Pichli and merges with river Beas near Kullu. SaravariKhad contributes water from various small khads and springs in the catchment area. Catchment area of the khad comprises of parts of Kullu district.
 - (vi) Joan Khad: Joan Khad is a snow fed khad of length ~25 km, Joan Khad originates from near Khanag and merges with river Satluj near Behna at about 35 km downstream of Rampur. Joan Khad contributes water from various small khads and springs in the catchment area. Catchment area of the khad comprises of parts of Kullu district Block Anni.
 - (vii) BhargolKhad: BhargolKhad is a snowfedkhad of length ~10 km, BhargolKhad originates from near Bachher and merges with Joan Khad near Shamshar. BhargolKhad contributes water from various small khads and springs in the catchment area. Catchment area of the khad comprises of parts of Panchayat Kohila, Manjadesh etc.
 - (viii) Shoun Nallah: Shoun Nallah is a snowfed nallah of length ~3 km, Shaun Nallah originates from near Lal Jougni Temple and merges with Joan Khad about 1 Km above the proposed Head weir on Joan Khad. Shoun Nallah contributes water from small springs in the catchment area. Catchment area of the Nallah comprises of parts of Panchayat Manjadesh etc.
 - (ix) Khaud Nallah: Khaud Nallah is a snowfedkhad of length ~7 km, Khuad Nallah originates from village Pini and merges with Kais nallah about 300m above the proposed Bore well Bandrol. Khaud Nallah contributes water from small springs in the catchment area. Catchment area of the Nallah comprises of parts of Panchayat Kais etc.
 - (x) Kais Nallah:Kais Nallah is a snowfedkhad of length ~6 km, Kais Nallah originates from village Kais and merges with River Beas near proposed Bore well Bandrol. Kais Nallah contributes water from small springs in the catchment area. Catchment area of the Nallah comprises of parts of Panchayat Kais etc.
 - (xi) Sotak Nallah:Sotak Nallah is a snowfedkhad of length ~5 km, Sotak Nallah originates from near Temple maharishi Jamdagni at Sees and merges with another khad near Rupi Valley. Sotak Nallah contributes water from small springs in the catchment area. Catchment area of the Nallah comprises of parts of Panchayat Jaistha etc.
 - (xii) Lohal Nallah:Lohal Nallah is a snowfedkhad of length ~3 km, Lohal Nallah originates from near Jalori Pass and merges with Bhargolkhad. Lohal Nallah contributes water from small springs in the catchment area. Catchment area of the Nallah comprises of parts of Panchayat Kohila etc.

The major sources of irrigation are small water channels or the Kuhl's in the district and an area of 363 sq. km is brought under irrigation by various sources like canals, tanks, wells, and other sources.

Sources proposed in the project area are located in isolated areas where no potential pollution source is found.

Figure 10-1: Map showing water bodies and sources



Source: Google maps, state river maps, transect walks

Appendix 11: Format: 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, socioeconomic 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 xxxx 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-3 (MZ-01)
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"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>		
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
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-3 (MZ-01)
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
4. Will easement be utilized within an existing Right of Way (ROW)?	✓			Pipelaying will be through Government land, village roads in this package,
5. Will there be loss of shelter and residential land due to land acquisition?				Not Applicable

Probable Involuntary Resettlement Effects	Yes	No	Not Known	Remarks
6. Will there be loss of agricultural and other productive assets due to land acquisition?				Not Applicable
7. Will there be losses of crops, trees, and fixed assets due to land acquisition?				Not Applicable,
8. Will there be loss of businesses or enterprises due to land acquisition?				Not Applicable
9. Will there be loss of income sources and means of livelihoods due to land acquisition?				Not Applicable--
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?		✓		
11. If land use is changed, will it have an adverse impact on social and economic activities?				Not Applicable
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? Not Applicable				
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		Himachal Pradesh Rural Drinking Water Improvement and Livelihood Project	
Country/Project Title	No./Project	f)	(HPRDWILP)
Subproject title		g)	Mandi Zone Package-3 (MZ-01)
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): xxxxxxxxxxxxxxx			
Date:			
NA			
For Project Implementing Agency (Name, title, signature): xxxxxxxxxxxxxxxxxxxxxxx			
Date:			
For Project Executing Agency (Name, title, signature): xxxxxxxxxxxxxxx			
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?	✓			As per National Rural Drinking Water Program (NRDWP) website, scheduled tribes comprise 2.78% of the total population in the sub- project area. ¹⁰ The scheduled tribe population is scattered, is well-assimilated and does not retain the characteristics of indigenous peoples 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 claimed as ancestral domain by scheduled tribes, is 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?	✓			
3. Do such groups self-identify as being part of a distinct social and cultural group?		✓		The scheduled tribe in subproject areas do not stay in tribal groups/community enclaves and are well-assimilated in society..
4. Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?		✓		

¹⁰[HTTPS://EJALSHAKTI.GOV.IN/lmisreports/Reports/Basicinformation/Rpt_RWS_RURALPOPULATIONS.aspx?RE P=O&RP=Y](https://ejalshakti.gov.in/lmisreports/reports/basicinformation/rpt_rws_ruralpopulations.aspx?RE P=O&RP=Y) Data as on 1 April 2021.

KEY CONCERNS (Please provide elaborations on the Remarks column)	YES	NO	NOT KNOWN	Remarks
5. Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?		✓		
6. Do such groups speak a distinct language or dialect?		✓		
7. Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?		✓		
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?				Not applicable, as scheduled tribes are scattered and assimilated and there are no such groups or communities in the subproject areas.
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)		✓		--

KEY CONCERNS (Please provide elaborations on the Remarks column)	YES	NO	NOT KNOWN	Remarks
11. Will the project affect the livelihood systems of Indigenous Peoples? (e.g., food production system, natural resource management, crafts and trade, employment status)		✓		
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?		✓		--
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?		✓		--

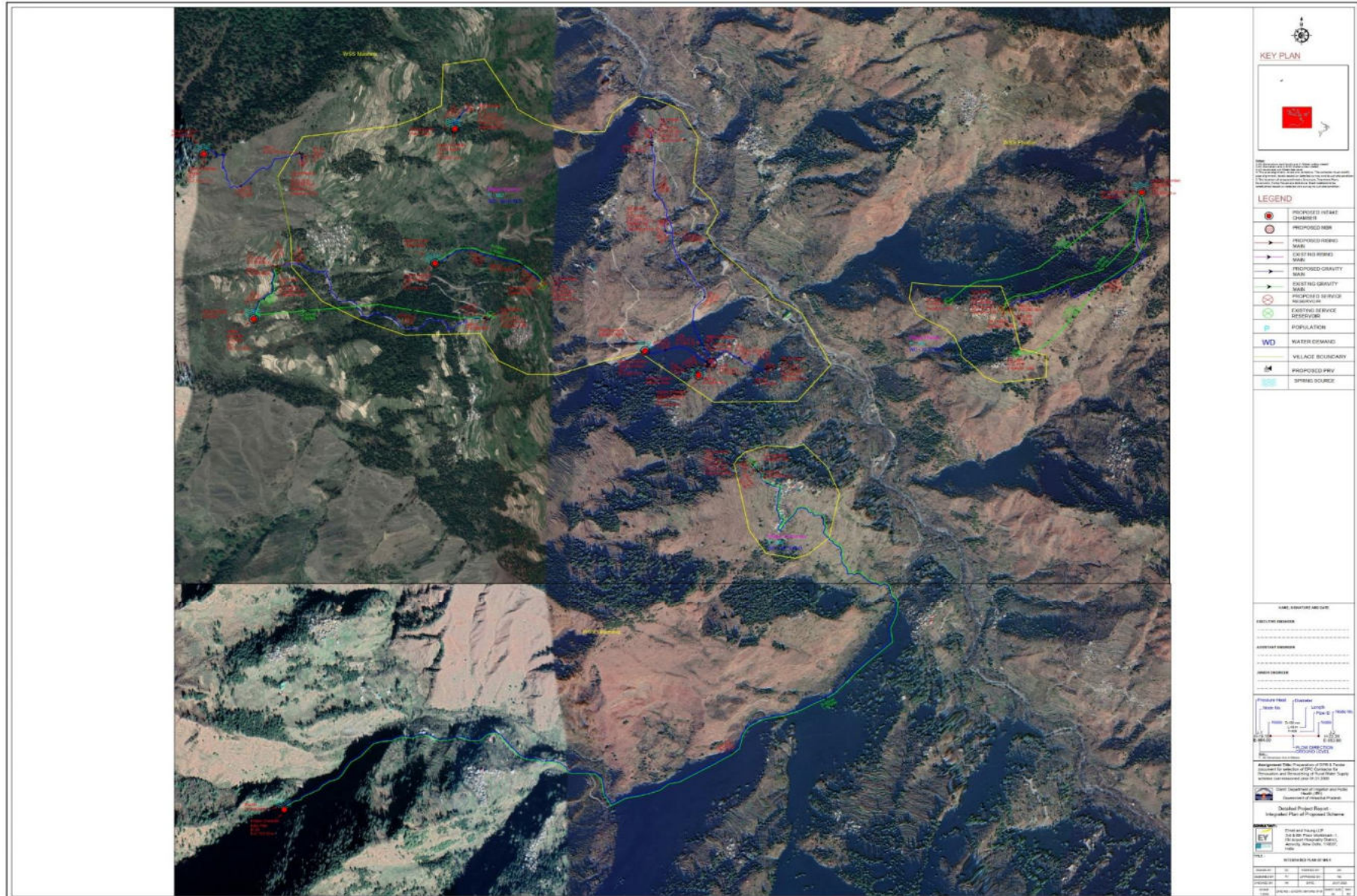
KEY CONCERNS (Please provide elaborations on the Remarks column)	YES	NO	NOT KNOWN	Remarks
16. Establishing legal recognition of rights to lands and territories that are traditionally owned or customarily used, occupied or claimed by indigenous peoples?		✓		--
17. Acquisition of lands that are traditionally owned or customarily used, occupied or claimed by indigenous peoples?		✓		No land belonging to the scheduled tribes will be acquired.

Anticipated project impacts on Indigenous Peoples

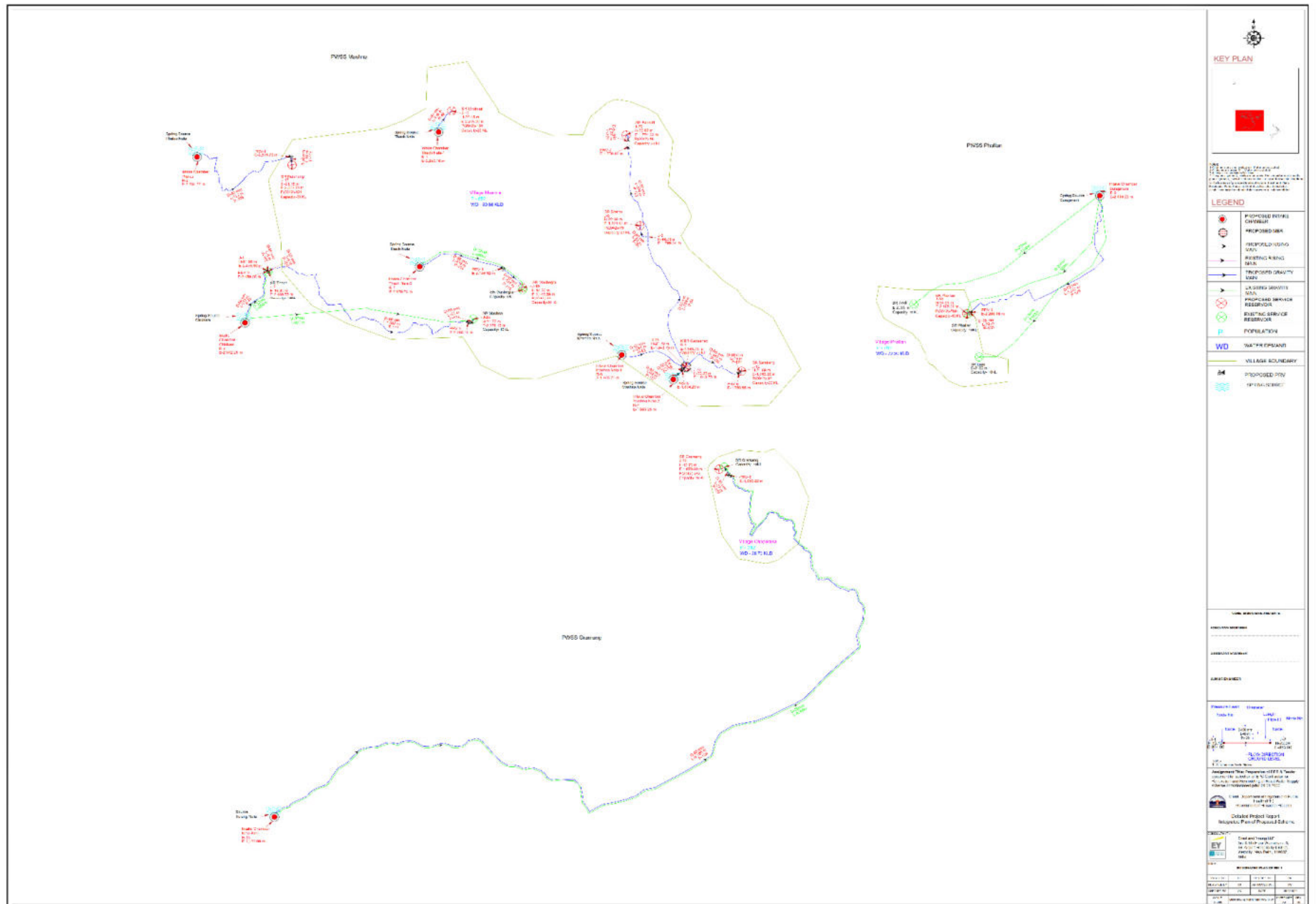
Project component/activity/ output	Anticipated positive effect	Anticipated negative effect
Total 25 intakes, 16 WTPs, 12 pump houses, 16 MBRs and 72 SRs, distribution network about ~270 Km and 8247 Metered Connection are proposed under the package MZ01.	The scheduled tribe population in project coverage area will benefit from water supply house service connections. However, it is scattered and does not conform to the ADB SPS definition of indigenous peoples groups.	No adverse impacts to indigenous people's groups are identified.

Appendix 17: Integrated Plans

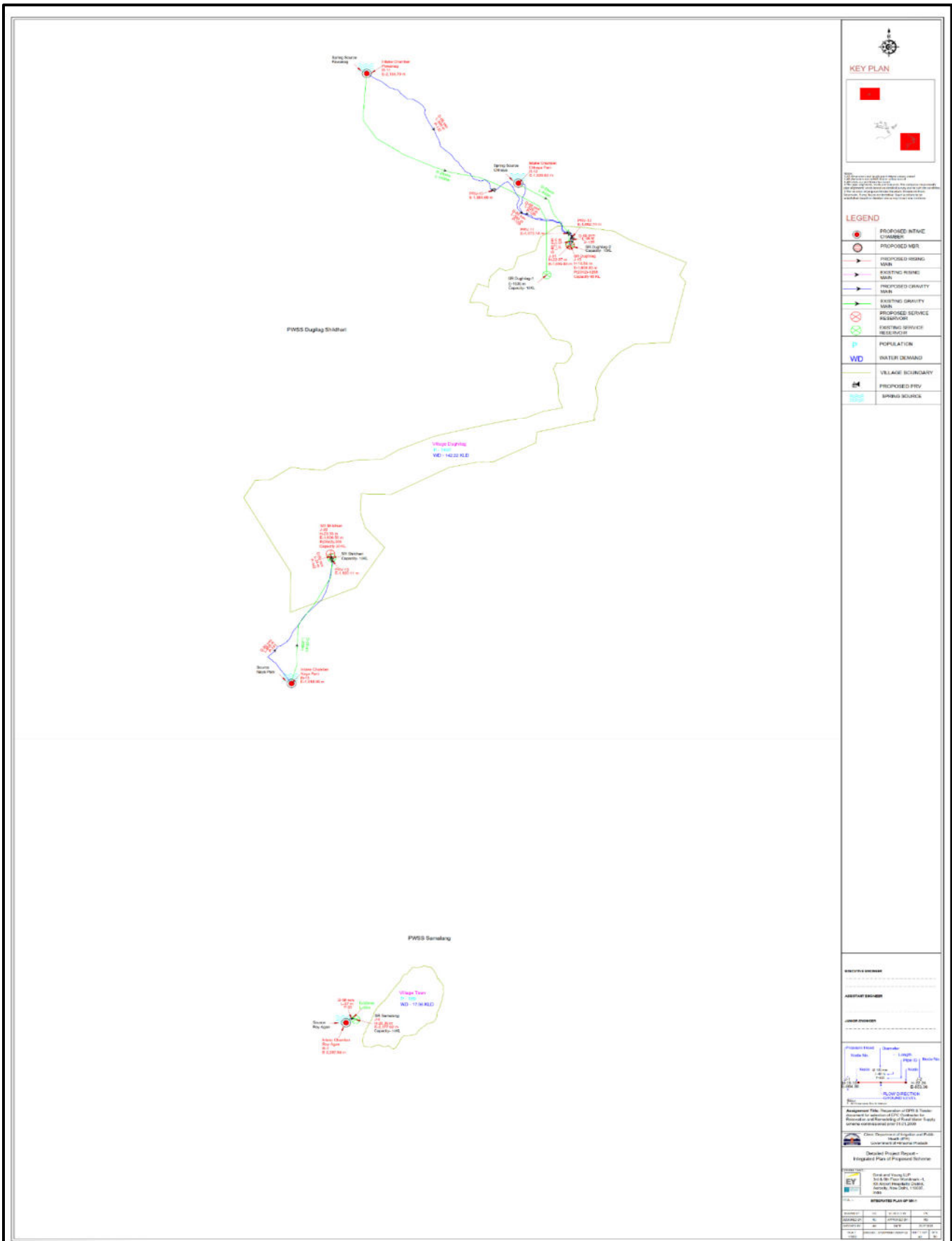
Figure 17-1 – Integrated Plan GRID MK 1



Source: Preliminary Detailed Project Report, 2020-21

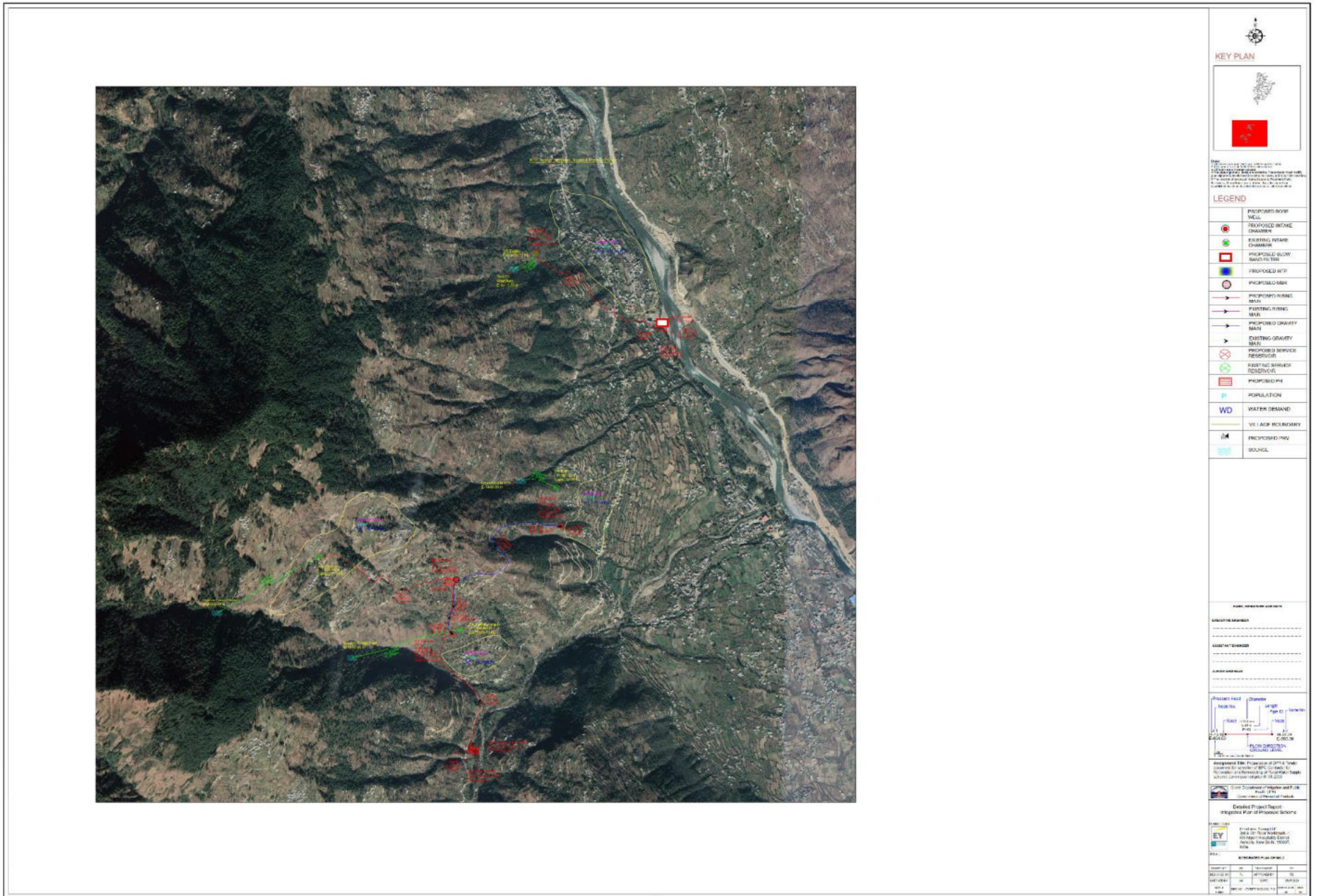


Source: Preliminary Detailed Project Report, 2020-21

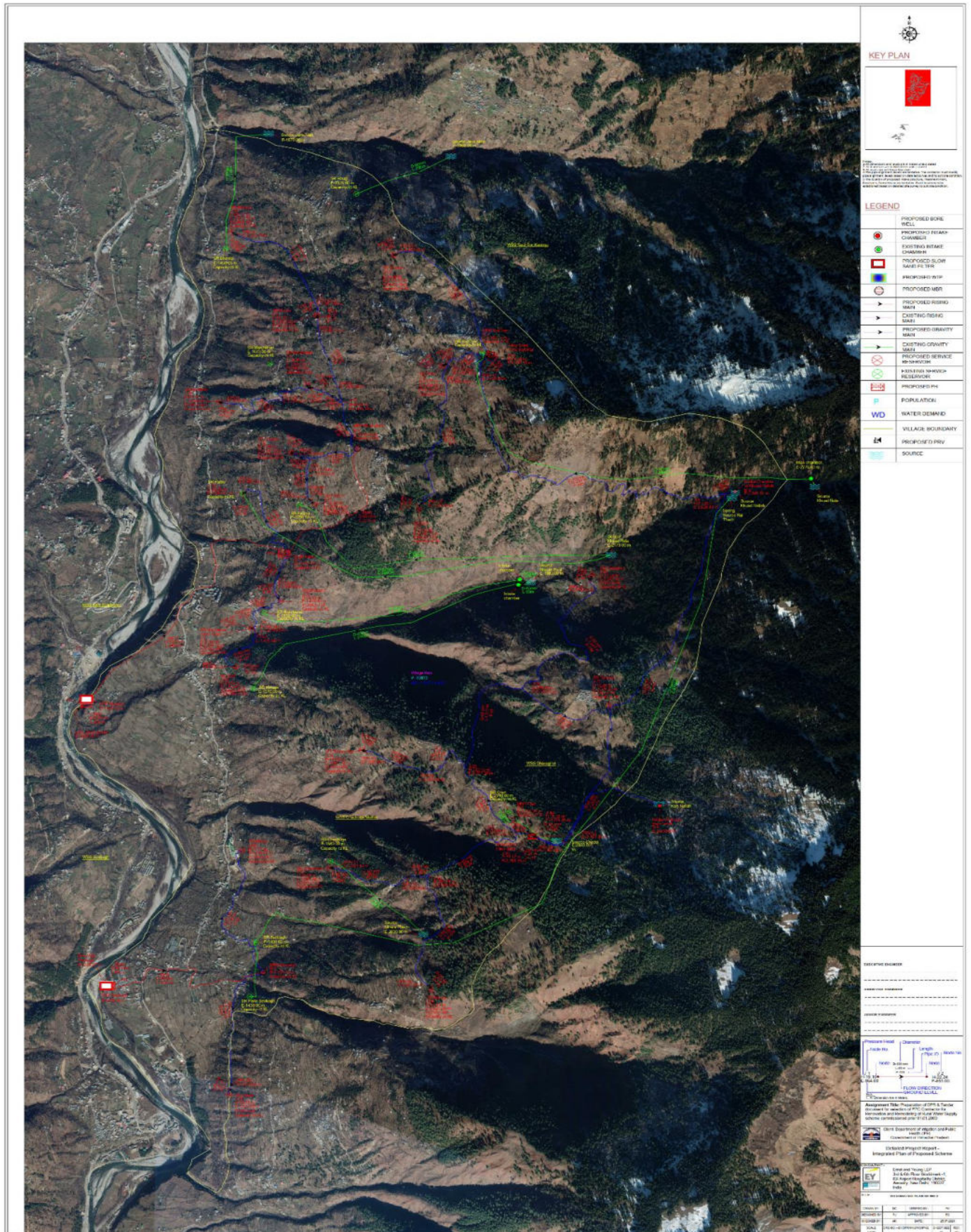


Source: Preliminary Detailed Project Report, 2020-21

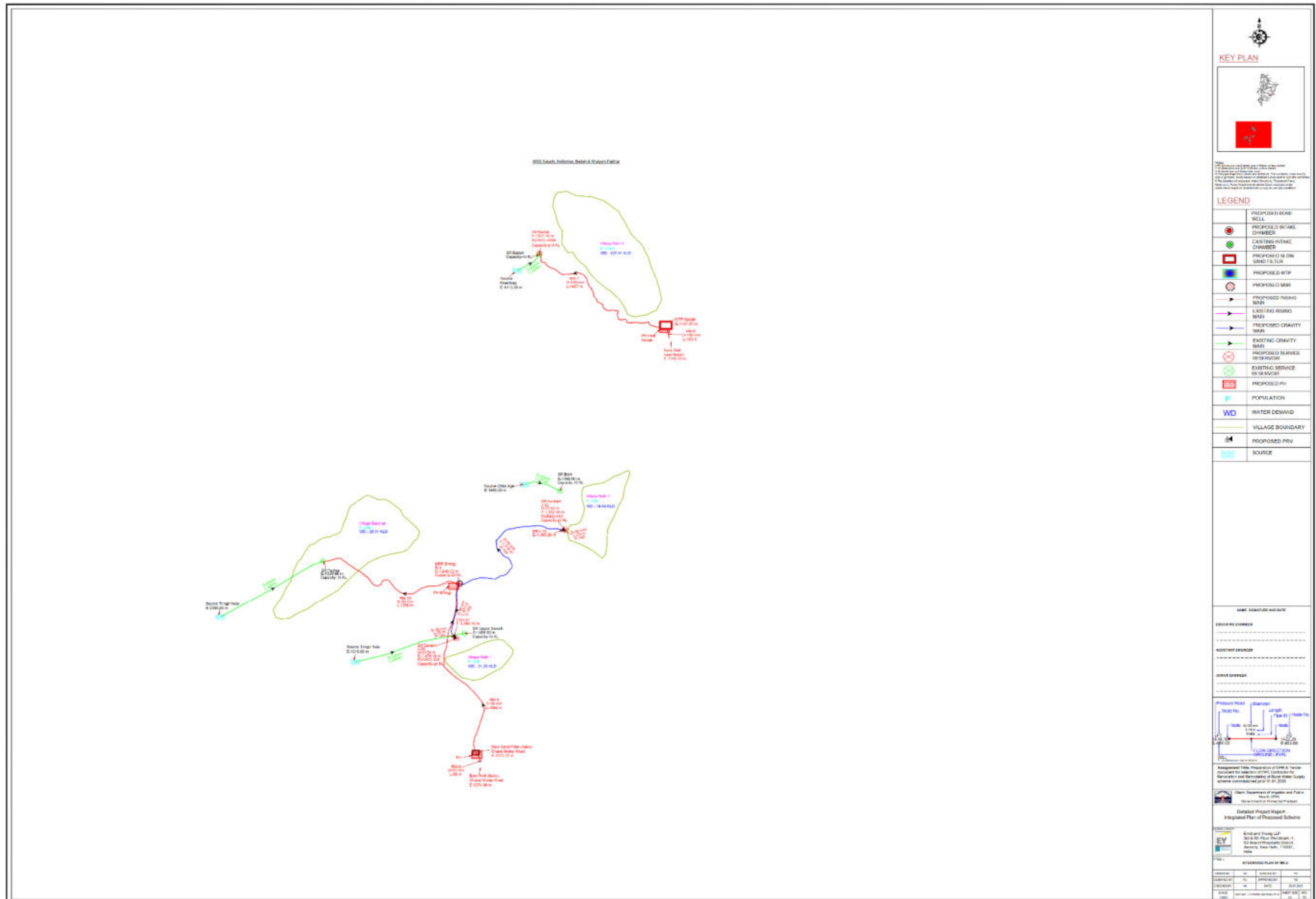
Figure 17-2 – Integrated Plan GRID MK 2



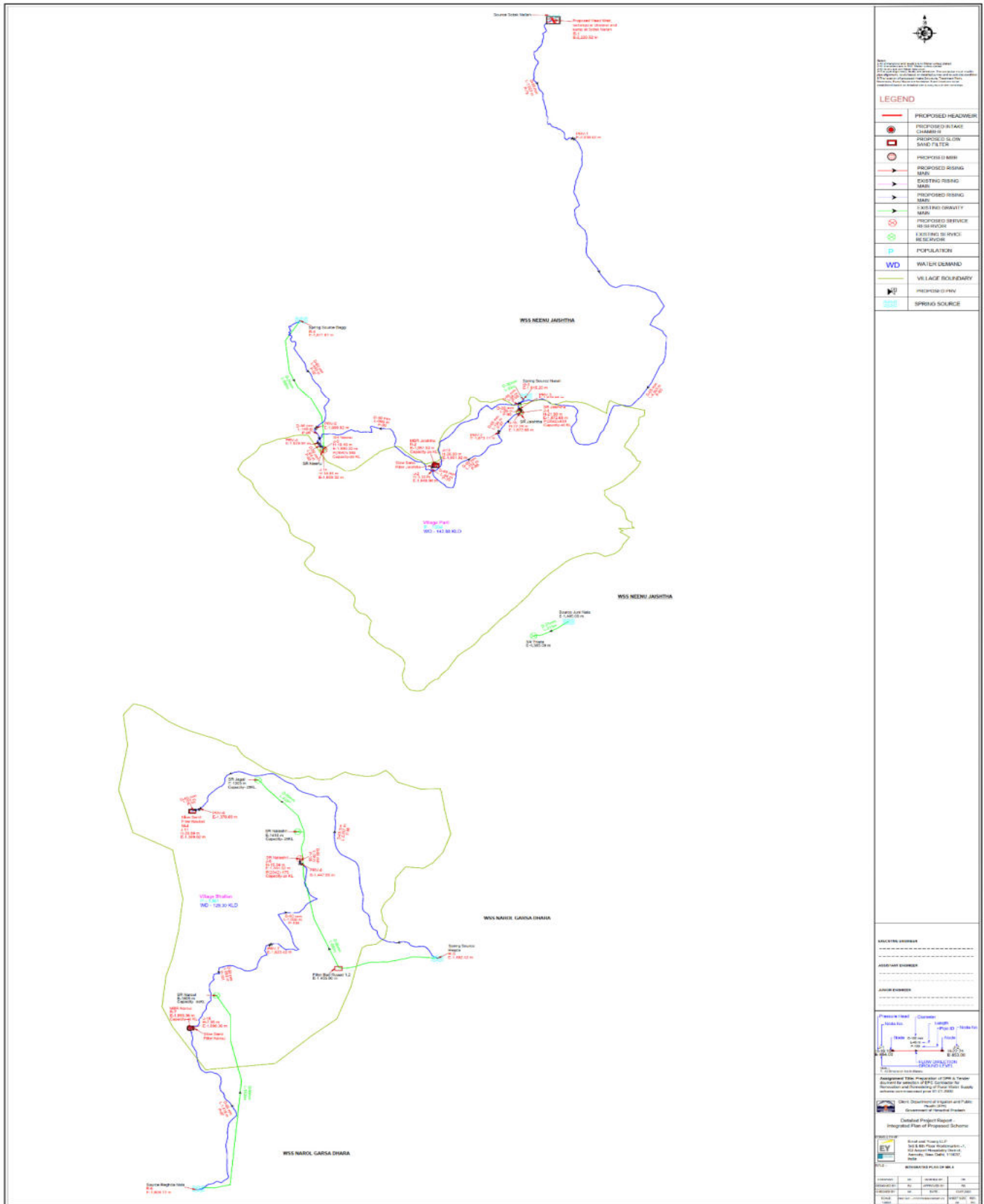
Source: Preliminary Detailed Project Report, 2020-21



Source: Preliminary Detailed Project Report, 2020-21

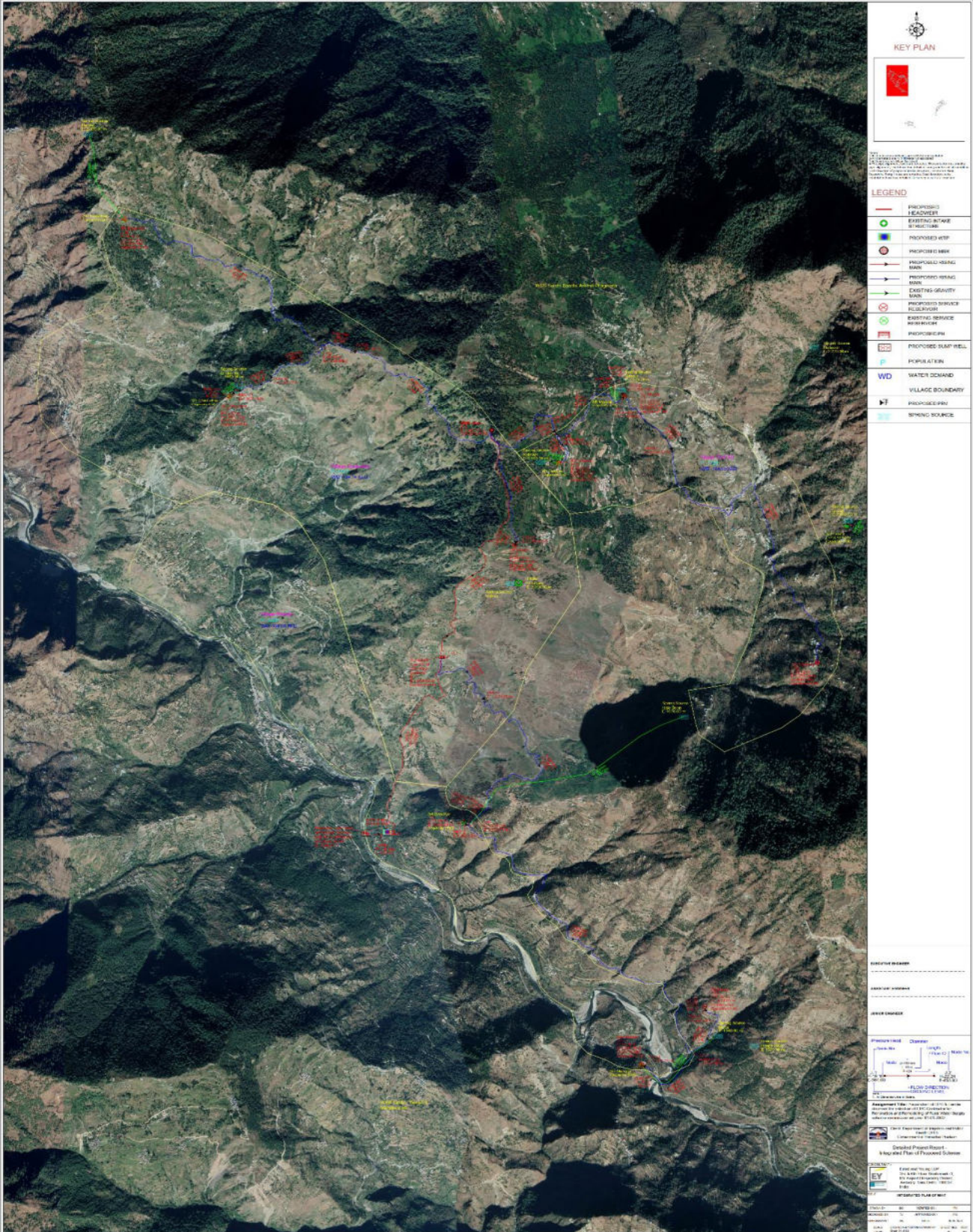


Source: Preliminary Detailed Project Report, 2020-21

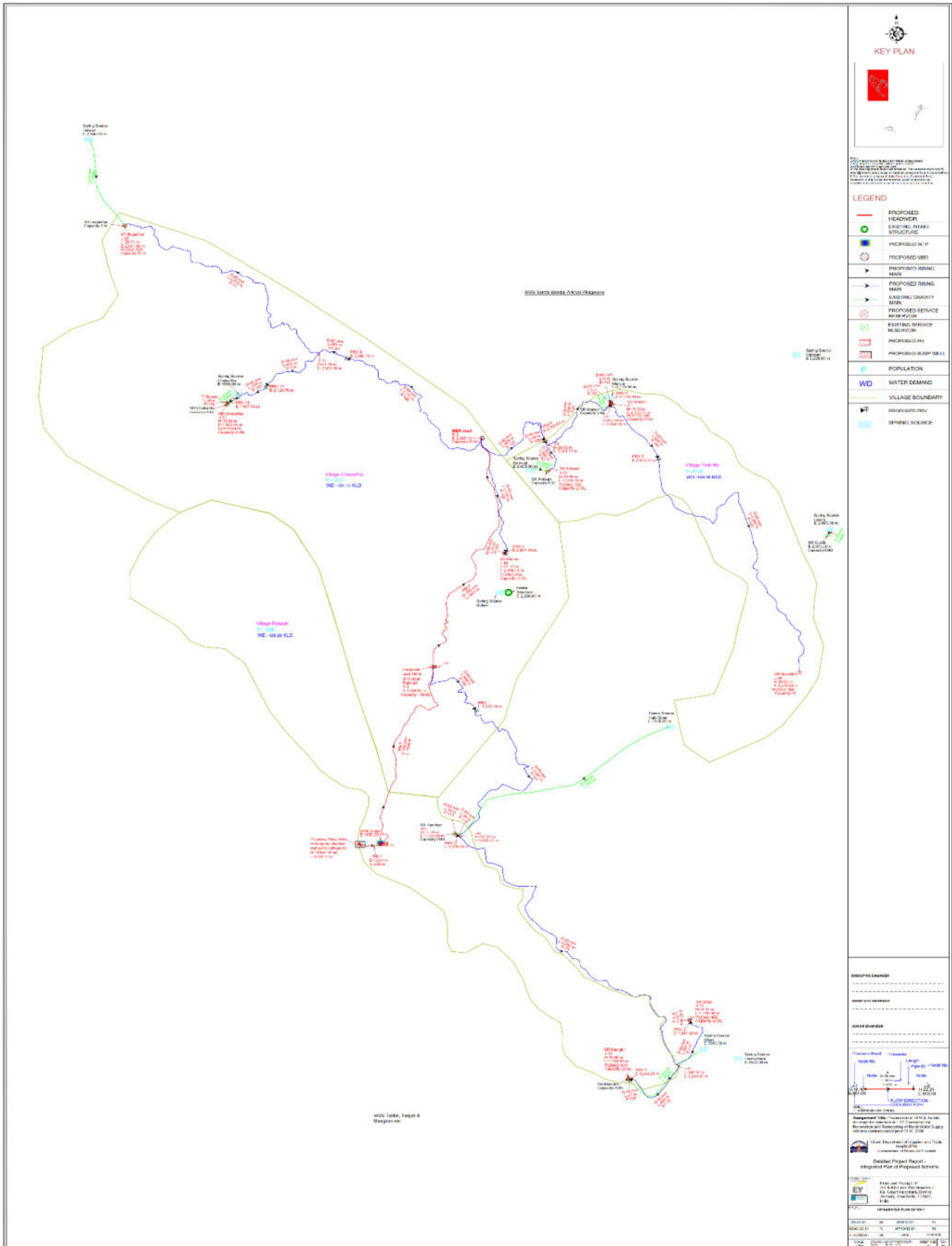


Source: Preliminary Detailed Project Report, 2020-21

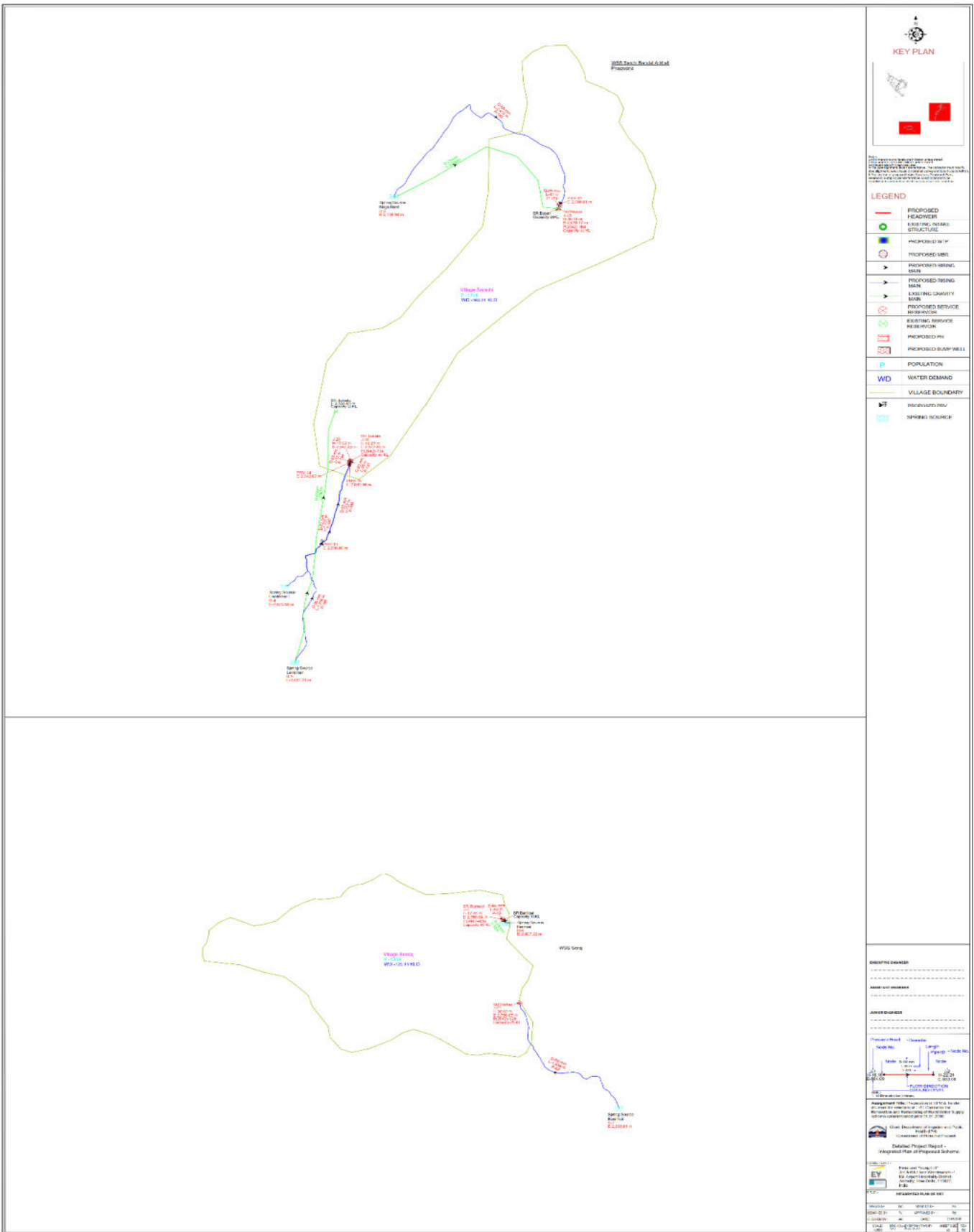
Figure 17-4 – Integrated Plan GRID MK 7



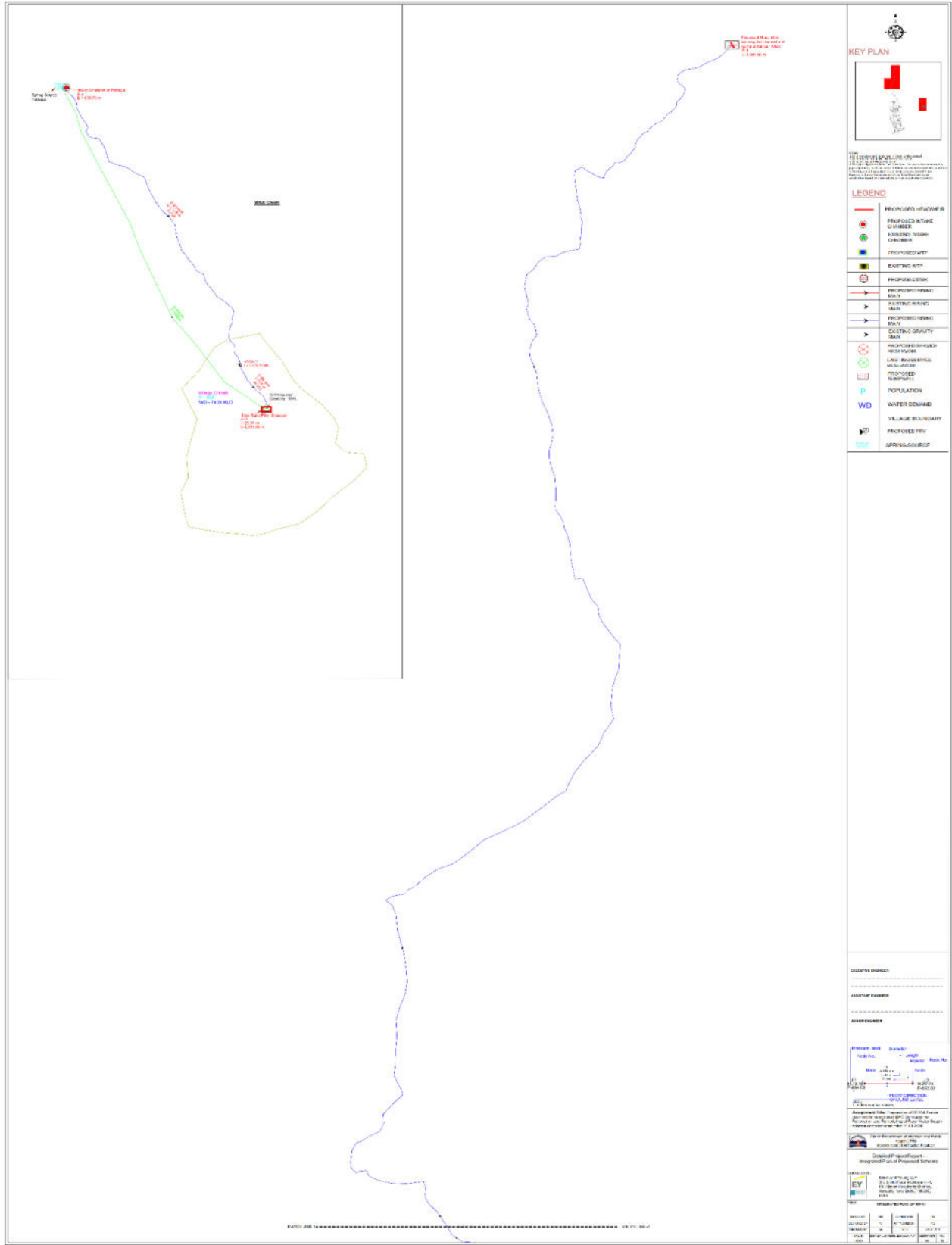
Source: Preliminary Detailed Project Report, 2020-21



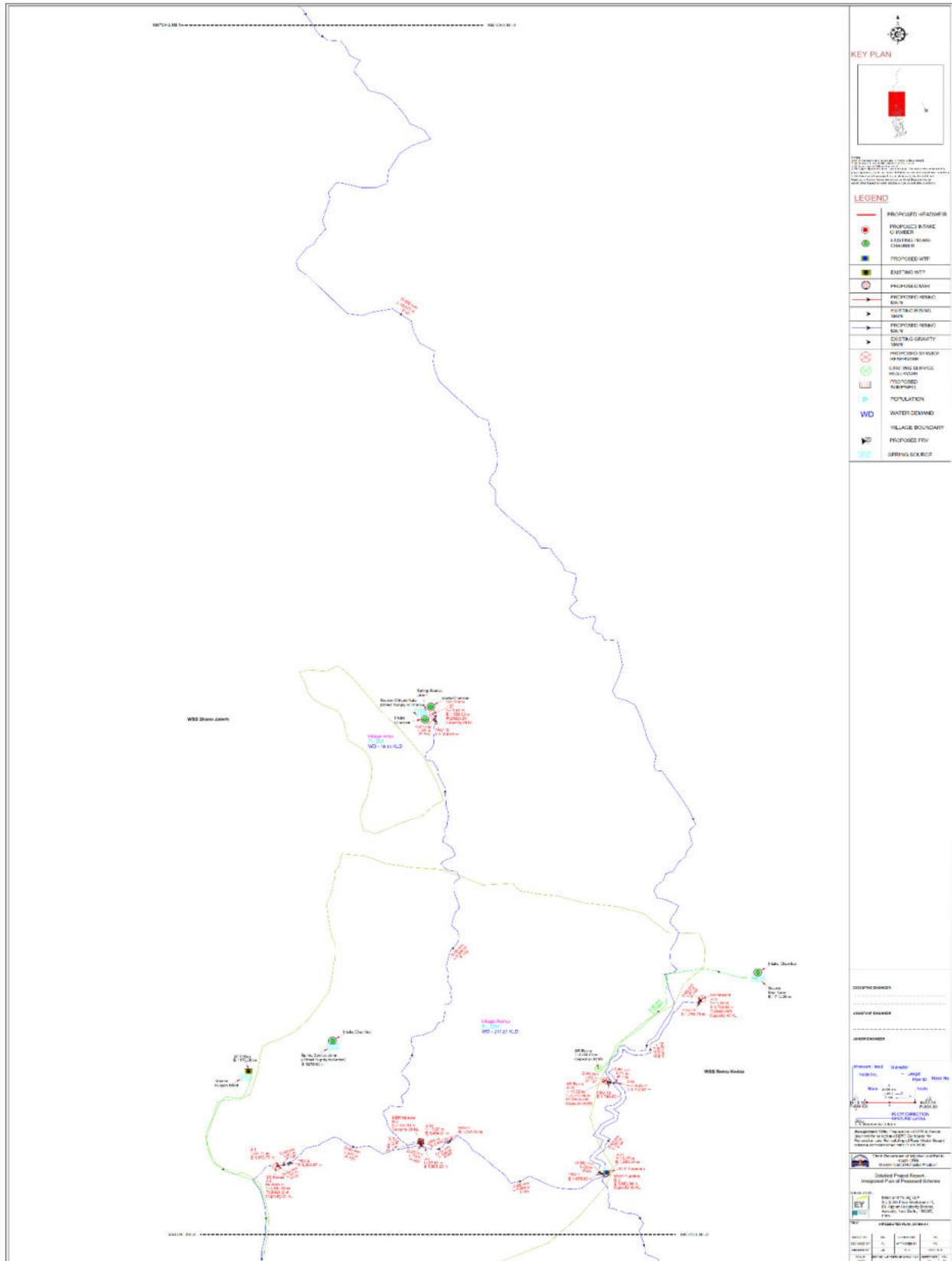
Source: Preliminary Detailed Project Report, 2020-21



Source: Preliminary Detailed Project Report, 2020-21



Source: Preliminary Detailed Project Report, 2020-21



Source: Preliminary Detailed Project Report, 2020-21

