

Initial Environment Examination

Project Number: 42267-026 December 2018 (Addendum)

IND: Rajasthan Urban Sector Development Program

Subproject : Bulk Water Supply for Pali

Submitted by

Rajasthan Urban Infrastructure Development Project, Jaipur

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Subject:- Compliance of ADB's Environmental Safeguard policy-Submission of Addendum to Initial Environmental Examination Report for Pali-02 Package (ADB loan No 3183-IND).

Please find enclosed herewith addendum to Initial Environmental Examination Report for Pali Bulk Water package (Pali-02) for ADB's review and approval.

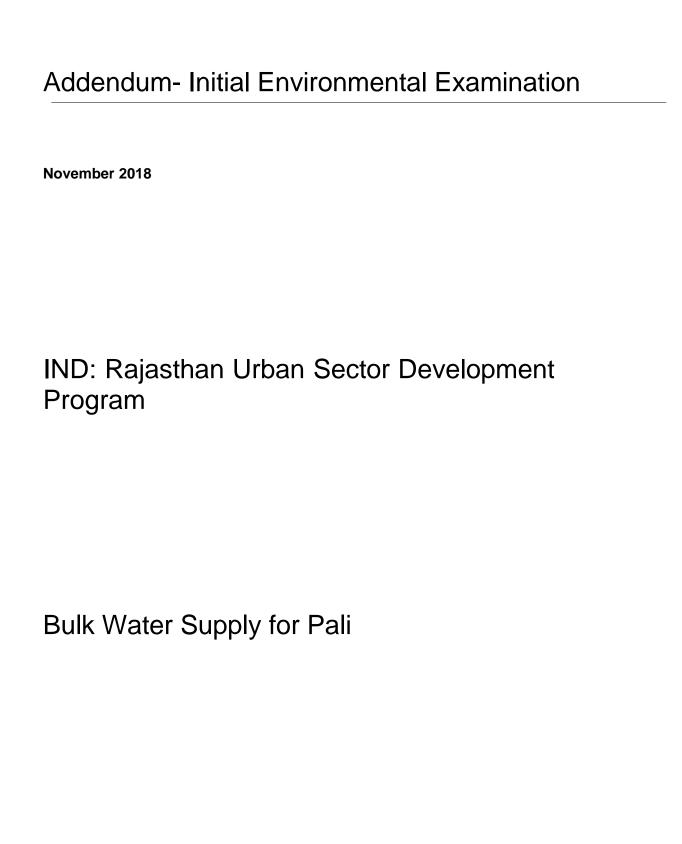
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Encl: As above.

(G.S.Hada) Addl. Project Director RUIDP, Jaipur

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Prepared by Rajasthan Urban Infrastructure Development Project, Government of Rajasthan for the Asian Development Bank

ABBREVIATIONS

ADB - Asian Development Bank
ADB - Asian Development Bank
ASI - Archeological Survey of India
ASO - Assistant Safeguards Officer
CFE - Consent for Establishment
CFO - Consent for Operation

CPCB - Central Pollution Control Board

EA – Executing Agency

EHS – Environmental Health & Safety
EMP – Environmental Management Plan;

GOI – Government of India

GOR – Government of Rajasthan
IA – Implementing Agency

IEE – Initial Environmental Examination;

PIU – Project Implementation Unit; PMU – Project Management Unit

LSGD – Local Self Government Department

MLD – Million Liters per Day
 LPCD – Liters per Capita per Day
 ELSR – Elevated Service Reservoir

PE – Polyethylene

DWC – Double Corrugated Duct

NHAI – National Highways Authority of India

NOC – No Objection Certificate

PHED – Public Health Engineering Department

PMDSC – Project Management, Design and Supervision Consultant

REA – Rapid Environmental Assessment Checklist

RoW – Right of Way

RPCB – Rajasthan Pollution Control Board

RUIDP – Rajasthan Urban Infrastructure Development Project
RUSDP – Rajasthan Urban Sector Development Program

SIP – Service Improvement Plan

SPS – Safeguard Policy Statement, 2009

ULB – Urban Local Body
WTP – Water Treatment Plant

Table of Contents

ABBREVIATIONS		2
1. Project Background		4
2. Project Location		4
3. Background of IEE		5
II Description of Updated Sco	pe of works	5
III Description of Baseline Env	vironment	12
IV Environmental Impact Asse	essment of Updated scope of works	12
V. Public Consultation		21
VI. Field Based Environmenta	al Due Diligence	21
VII. Conclusion		22
Appendix 1: Layout Plan	showing Original scope of works as per Detail	Design (DPR)23
Appendix 2: Layout Plan	Showing updated scope of works as per SIP	24
Appendix 3: Layout Plan	showing Change in pipe laying works	25
Appendix 4: Public Cons	ultations	26

I Introduction

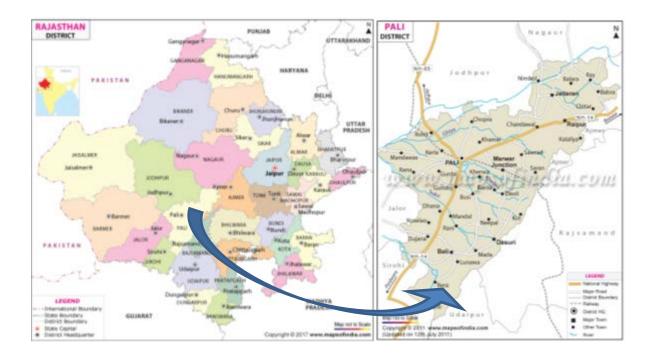
1. Project Background

- 1. The proposed Rajasthan Urban Sector Development Program (RUSDP) will complement the past and ongoing efforts of Government of Rajasthan (GoR) to improve water supply and wastewater services to the residents of the state of Rajasthan. The program component of the RUSDP will support policy reforms and consolidate institutional development and governance improvement in the urban sector in the state, while the investment component of the RUSDP will invest in water distribution network improvements and sewerage systems in the six project cities, each having a population of more than 100,000, and identified considering the lack of basic services at present and willingness to undertake reforms and institutional restructuring. The expected impact of the RUSDP will be sustainable urban development in Rajasthan. The expected outcome will be improved urban service delivery in Rajasthan.
- 2. The focus of the RUSDP investment will be on water supply and sewerage infrastructure. A series of subprojects will be implemented under the Project, with each subproject providing improvements to water supply or sewerage or both in a project town.
- **3.** Proposed project of Bulk Water System in Pali is one of the subprojects proposed under RUSDP in District Pali in the State of Rajasthan.

2. Project Location

4. Proposed subproject components are location in District Pali in Rajasthan State of India. Pali Town is the headquarters of Pali District, and is situated in the south central part of Rajasthan State. It is located at about 300 km southwest of State Capital, Jaipur. Pali is one of the six project towns selected for implementation of the ADB funded Rajasthan Urban Sector Development Program (RUSDP). Location Map of Pali is given in Figure-1 below-

Figure -1: Location Map of Pali



3. Background of IEE

5. Bulk Water Supply for Pali subproject is one of the subprojects proposed under the RUSDP. ADB requires the consideration of environmental issues in all aspects of the Bank's operations, and the requirements for environmental assessment are described in ADB's Safeguards Policy Statement (2009). Accordingly, Initial Environmental Examination (IEE) was prepared in detail design phase in May 2016 to assess the environmental impacts and provide mitigation and monitoring measures to ensure that there are no significant impacts as a result of the subproject. Scope of works in this IEE was taken from bid documents (employers requirement section) and were part of the bid. After mobilization of contractor, during preparation of Service Improvement Plan (SIP) by contractor, it was confirmed by the contractor, after details survey, that there are some change in length and alignment of pipelines are required. Therefore, due to changes in length of pipeline networks, suggested by contractor and confirmed by RUIDP and Consultant (PMDSC), this addendum to earlier IEE is being prepared as per ADB SPS. This addendum reflects the changes made in scope of works. Anticipated impacts and mitigation measures will remain same as assessment of environmental impact had been carried out for the whole town and no location changes for the components are in effect. Environment Management Plan as included in IEE is already part of contract agreement, which is well structured and sufficient to mitigate impacts as identified in this addendum.

II Description of Updated Scope of works

6. In the another subproject, Water Supply and Sewerage Works in Pali (Package no. RUSDP/Pali/01) most of the components were taken for water supply improvement in the town. But the components in the scheme were not sufficient to cover the water demand of entire town. In this subproject (Package no. RUSDP/Pali/02), the water supply scheme components to be developed have been identified and sized in order to bring completeness to the scheme. This part of planning, designing and execution

of the water treatment-transmission-storage-bulk supply is called Bulk Water Supply for Pali (Pali Water Supply Scheme Phase-II) and is described herein under.

7. Under Bulk Water Supply for Pali Subproject, works proposed are mainly- (i) New Raw Water Transmission Pipeline of Length 4150m, Diameter 700mm Material DI K-9 (ii) Pipe laying of various diameters (150mm -700mm) of total length of 36802m in different locations of town (iii) Construction of 7 nos. of OHSRs of various capacities at various locations of town (iv) construction of a new WTP of capacity 30 MLD at Manpura Bhakhri including CWR of 5000 KL capacity and Clear Water Pump Station (v) Refurbishment of 3 nos. existing WTPs (vii) Refurbishment of 19 nos. of existing OHSRs. The sub project components are described in **Table-1** below-

Table 1: Proposed Components of Bulk Water Supply for Pali sub project

S.N.	Project component	Description of works (Earlier)			location	Description of works (Update		
	Construction of new WTP	clear water pum (Detail design and MLD for year 20	apacity (for year 2031) and lear water pumping station, Detail design and layout of 41 ILD for year 2046) Bhakhri, Pali 2031) pump desig for ye Clear KL an Statio					
	Construction of OHSRs	Construction of as following-	7 nos. OHSRs			No Change		
	or or long	3 nos. OHSRs of capacity	f 1000 m ³		Labour Colony, Raiko Ki Dhani, Mandiya Village	3 nos. OHSRs capacity	of 1000 m ³	
		4 nos. OHSRs of capacity	f 500 m ³		Housing Board, Industrial area, Shantinath (Mandiya road OHSR location) and Jodhpur Road	4 nos. OHSRs of 500 m ³ capacity		
	Pipe laying	New Raw Water Pipeline of Leng Diameter 700mr	th 3752m,		Through existing ROW in Various	New Clear Water Transmission Pipeline of DI- K9 pipe		
		transmission of	Pipe laying of various dia for transmission of treated water to different location as follows-	location in town	Pipeline Diameter (mm)	New scope Length (m)		
		Pipeline	Scope			700	4150	
		Diameter (mm)	Length(m)			Pipe laying for as per following		
		150 490					New	
		200 3996				Pipeline Diameter	scope	
		250	13483			(mm)	Length (m)	
		300 611				150	875	
		350	5603			200	3635	
		400	2646			250	10977	
		450	1444			300	2190	

S.N.	Project component	Description of works (Earlier)	proposed		location	Description of works (Update	•	
		500	1920			350	6100	
		700	7964			400	4200	
		Total	38280			450	725	
						500	1430	
						700	6670	
						Total	36802	
						Grand Total	40952	
4.	Refurbishme nts of existing WTPs	Refurbishment following- City Campus-IV Mandli Head Wo Mandli Head Wo	(19.40 MLD) orks (7.35MLD		Refurbishment of 3 W following- City Campus and Mandli Head (7.35MLD) Mandli Head (3.7MLD) -No Change			
	Refurbishme nts of existing OHSRs	Out of existing Pali, total 3 are abandoned a recommended f	recommended and 19	l to are	Various locations in the Pali city	Refurbishment OHSRs- No ch	-	
	Raw Water Pumps	Construction of 1No. Standby, Pump Stat Mechanical Works) at N	2Nos. Working New Raw Wa ion (Elect orks and mi	g + ater tro-	Mandli Head Works	Provide and installation of 2Nos. Working + 1No. Standby, New Raw Water Pumps (Electro-Mechanical Works and minor Civil Works) at Mandli- No Change		
	Clear Water Pump Stations	Construction of New Clear Water Pump Station with 2Working + 1Standby, Clear Water Pumps Construction of New Clear Water Pump Station at Mandli WTP Head Works			PHED campus Mandli WTP Head works	Construction of New Clea Water Pump Station wit 2Working + 1Standby, Clea Water Pumps Construction of New Clea Water Pump Station a Mandli WTP Head Works		
	Electrical and Instrumentat ion works	Bulk meters, pressure sensors, Level sensors for ESRs and CWR, Water Quality Monitoring sensors at WTPs, communication RTUs through GPRS, SCADA and complete system for automation.			At various Head Works	- No change Bulk meters, pressure sensors, Level sensors for ESRs and CWR, Water Quality Monitoring sensors at WTPs, communication RTUs through GPRS SCADA and complete system for automation No Change		
	GIS works	Integration of proposed system of GIS of Phase II compatible with Pali Phase I including Preparation of GIS base map and GIS development of water supply infrastructure containing all water supply components under Pali Phase 2			All sites in Pali		n Pali Phase I aration of GIS and GIS f water supply containing all components	

8. The subprojects include laying of water supply pipes in the municipal area of Pali, and construction of a water Treatment Plant (30 MLD at Manpura Bhakhri). Scope of works is updated in only length of pipelines of various diameters in various locations. Layouts of original scope of works, updated scope of works and change in Pipe laying works is given in **Appendix 1-3**. Details of these changes and reason for changes is given in **Table 2** below -

Table-2: Changes in Pipe Line Length and Reasons

	Table-2: Changes in Pipe Line Length and Reasons Package-RUSDP/PALI/02												
Detail For Pipeline													
S. No.	Section / Reach	Size (mm)	Length of		Excess	Reasons of Changes							
			As per BOQ	As per SIP		3.1							
1	Manpura Bhakhri TO JN-1	700 mm	4248	5165	917	Length increased as NHAI did not permitted for pipe crossing under ROB							
	2 JN-1 TO JN-2 500 mm			1505	1505	Between Jn-1 to jn-2							
2			1502			Dia 500 to 700 mm Changed in design due to increase demand of Nayagoan i.e. 1.46 to 4.25 MLD							
3	RWPS Mandli To WTP Manpura Bhakri 700 mm		3752	4150	398	Along N H. (DPR rout) 7 pipeline are already laid, so changed alignment							
	TOTAL		8000 10820		2820	through Mandli Village							
		30	00 mm			Heavy traffic & underground utilities							
4	JN-3 TO Suraj	300 mm	208			on Jodhpur road.							
4	Pole OHSR	250 mm		300		So, alignment							
		300 mm	412	2190		changed along the service road of							
5	JN-9 TO JN-10	250 mm	1755			PHED canal as well							
		200 mm				as no need of road							
	TOTAL		620	2190	1570	restoration and dia got changed from original 250 to 300 mm to meet the demand of Jodhpur road and Housing board.							
		40	00 mm										
		450 mm		495		1.New C C road was constructed							
6	JN-6 TO JN-7	400 mm	533			therefore route has							
	150 mm					been changed.							
		450 mm		230		2. Jn-8 has to be shifted due to pipe route was going to							
		400 mm		2235									
7	JN-7 TO JN-8	350 mm	2688			plot area of Deen							
		300 mm				Dayal Upadhaya							
		150 mm				colony.							

TOJ.N-13, Raiko k id hari OLD OHSR		labour colony JN	400 mm	2117	1965		
R dnain CLD 100 mm	Ω	TO JN-13, Raiko	100 111111				
TOTAL 2650 4200 1550			100 mm				
11					1000	4===	
Total		IOIAL	450		4200	1550	
7					I		Due to revision of
11	7	JN-3 TO JN-4		474	0.1.5	_	
11	-	IN 4 TO IN 0					
JN-6 TO JN-7	11	JN-1 TO JN-6			975		
15		N. 0 TO N. T		976	10=		
15		JN-6 TO JN-7	450 mm		495		
150 mm	15		400 mm				
17	13		400 111111	533			
17			150 mm	000			400 III.
17		JN-7 TO JN-8			230		
350 mm	17	0117 10 011 0					
TOTAL 150 mm 150 mm 30 30 30 30 30 30 30	''			2688	2200		
150 mm		TOTAL	000 111111		725	-725	
Shantinath New OHSR 150 mm 23 23 23 23 24 24 24 24			150 mm			1.20	Due to revision of
Shantinath New OHSR		JN-6A TO			30		
10	9				30		
10			200 mm	23			
10							
11	10		150 mm	150	90		
11		OHSR	050	0077			
11	١.,	JN-8 TO		2277	4000		decreased 365 m.
12	11						
12 New SR 150 mm 210 13 JN-12 to Old Labour Colony 150 mm 50 60 14 JN-14 to IND. Phase-IV New OHSR 200 mm 100 100 29 JN-2 TO Naya Gaon OHSR 350 mm 2760 250 mm 2760 31 JN-3 TO JN-4 350 mm 915 100 mm 100 mm 32 JN-4 TO JN-5, CWR 350 mm 599 310 Gandhinagar OSHR length got increased due to shifting of location of Jn-08. 33 JN-7 TO JN-8 400 mm 2235 350 mm 2235 34 JN-8 to Gandhi Nagar OHSR 350 mm 2277 200 mm 1800							
13	12			242	195		
13			150 mm	210			
14	13		150 mm	50	60		
14			200 mm		100		
OHSR	14				100		
350 mm 2760 350 mm 2760 250 mm 2637 250 mm 474 250 mm 915 250 mm 2637 250 mm 915 250 mm 2637 250 mm 2638 250 mm 2638			150 mm	80			
29 JN-2 TO Naya Gaon OHSR 350 mm 2637 31 JN-3 TO JN-4 450 mm 474 31 JN-3 TO JN-4 350 mm 915 32 JN-4 TO JN-5, CWR 350 mm 599 310 33 JN-7 TO JN-8 450 mm 230 34 JN-8 to Gandhi Nagar OHSR 350 mm 2688 35 JN-8 TO Punayta OHSR 350 mm 2277 35 JN-8 TO Punayta OHSR 200 mm 1800		TOTAL		490	875	385	
29 Gaon OHSR 250 mm 2637 31 JN-3 TO JN-4 350 mm 915 32 JN-4 TO JN-5, CWR 350 mm 599 310 33 JN-7 TO JN-8 450 mm 230 34 JN-8 to Gandhi Nagar OHSR 350 mm 2688 35 JN-8 TO Punayta OHSR 350 mm 2277 200 mm 1800			350 mm				
31 JN-3 TO JN-4	29		350 mm		2760		
31		Gaon OHSR					
31 JN-3 TO JN-4 350 mm 915 32 JN-4 TO JN-5, CWR 350 mm 599 310 33 JN-7 TO JN-8 450 mm 230 34 JN-8 to Gandhi Nagar OHSR 350 mm 2688 35 JN-8 TO Punayta OHSR 350 mm 2277 35 JN-8 TO Punayta OHSR 200 mm 1800				474			
100 mm 599 310 Gandhinagar OSHR 100 mm 230 350 mm 2688 34 JN-8 to Gandhinagar OHSR 350 mm 2277 200 mm 1800 S99 310 From Jn-8 to Gandhinagar OSHR length got increased due to shifting of location of Jn-08.	31	JN-3 TO JN-4	350 mm		915		
32 CWR 100 mm length got increased due to shifting of location of Jn-08. 33 JN-7 TO JN-8 450 mm 230 34 JN-8 to Gandhi Nagar OHSR 350 mm 86 795 35 JN-8 TO Punayta OHSR 350 mm 2277 35 JN-8 TO Punayta OHSR 200 mm 1800			100 mm				From Jn-8 to
33 JN-7 TO JN-8 450 mm 230 due to shifting of location of Jn-08. 350 mm 2688 350 mm 350 mm 350 mm 2277 350 mm 200 mm 1800 350 mm 360	32		350 mm	599	310		
33 JN-7 TO JN-8 450 mm 2235 350 mm 2688 34 JN-8 to Gandhi Nagar OHSR 350 mm 86 795 JN-8 TO Punayta OHSR 200 mm 1800	52	CWR	100 mm				
33 JN-7 TO JN-8 400 mm 2235 350 mm 2688 34 JN-8 to Gandhi Nagar OHSR 350 mm 86 795 35 JN-8 TO Punayta OHSR 200 mm 1800			450 mm				
34 JN-8 to Gandhi Nagar OHSR 350 mm 86 795 35 JN-8 TO Punayta OHSR 2277 35 1800	33	JN-7 TO JN-8	400 mm		2235		.504.1511 01 011 00.
34 Nagar OHSR 350 mm 86 795 35 JN-8 TO Punayta OHSR 200 mm 1800			350 mm	2688			
35 JN-8 TO 200 mm 1800	34		350 mm	86	795		
35 Punavta OHSR		IN 0 TO	350 mm	2277			
150 mm 695	35		200 mm		1800		
		i dilayta Orioit	150 mm		695		

	CWPS City	350 mm		1320		
36	Campus (HW TO JN-9)	200 mm	1250			
	TOTAL		5650	6100	450	
		200 mm				Due to revision of
15	JN-4 to Bhatwada ESR	200 mm	615	305		hydraulic design some pipe dia convert 200mm to
16	JN-5 to PHED ESR	200 mm	221	150		150mm therefore 150mm length
17	JN-6 to JN-6A	200 mm	300	300		increased 385 M.
18	JN-6A TO Shantinath New OHSR	150 mm 200 mm	23	30		while 200mm decreased 365 m.
	JN-7 TO	250 mm		252	+	
19	Shantinath Old OHSR	200 mm	252	202		
	IN 0 TO	350 mm	2277		7	
20	JN-8 TO Punayta OHSR	200 mm		1800		
	T unayta Of IOIC	150 mm		695		
	CWPS City	350 mm		1320		
21	Campus (HW TO JN-9)	200 mm	1250			
22	JN-10 to Jodhpur road	200 mm	107	50	4	
	campus	200 mm 250 mm	39	30 685		
23	JN-10 TO JN-11	200 mm	738	000	\dashv	
	JN-11 to H.B.	200 mm	730	195	1	
24	New SR	150 mm	210	.00	1	
25	JN-11 TO Housing Board Old OHSR	200 mm	455	525		
00	JN-12 to New	200 mm		90		
26	Labour Colony	250 mm	373			
27	JN-14 to IND. Phase-IV Old OHSR	200 mm		90		
	JN-14 to IND.	200 mm		100		
28	Phase-IV New OHSR	150 mm	80			
	TOTAL		4000	3635	-365	
		500 mm			_	Between Jn-1 to Jn-
2	JN-1 TO JN-2	700 mm		1505	_	2 ,Dia 500 to 700 mm Changed in
	514 1 1 O 514-2	500 mm	1502		_	design due to
5	JN-2 TO JN-3	500 mm	418	455	4	increase demand of
<u> </u>	=	700 mm			4	Nayagoan i.e. 1.46 to 4.25 MLD
11	JN-1 TO JN-6	500 mm		975		therefore length
		450 mm	976	1100	45-	saving in 500mm dia.
	TOTAL		1920	1430	-490	Detween In Ota
		250 mm		1	4	Between Jn-2 to Nayagoan Dia 250
37	JN-2 TO Naya	350 mm		2760	4	to 350 mm Changed
	Gaon OHSR	250 mm	2637			

38	JN-3 TO Suraj	300 mm	208			in design due to
30	Pole OHSR	250 mm		300		increased demand
	JN-7 TO	250 mm		252		of Nayagoan i.e. 1.46 to 4.25 MLD
39	Shantinath Old OHSR	200 mm	252			therefore length
		300 mm	412	2190		saving in 250mm dia.
40	JN-9 TO JN-10	250 mm	1755			
		200 mm				
41	JN-10 TO JN-11	250 mm		685		
41	JIN-10 TO JIN-11	200 mm	738			
42	JN-12 to New	200 mm		90		
42	Labour Colony	250 mm	373			
43	JN-13 to New Raiko ki dhani	250 mm		85		
44	JN-12 TO JN-14	250 mm	2785	2845		
45	CWPS Mandli To Mandiya Village OHSR	250 mm	5950	6800		
	TOTAL Mtrs	i.	13500	10967	-2533	
	Grand Total M	trs.	38280	40952	2626	

III Description of Baseline Environment

9. Pipe Laying Works. Pipes for water supply are being laid along the roads/streets in the town within the road right of way (ROW). In wider roads pipes are being laid in the road shoulder beside the tarmac, and in narrow roads, where there is no space, pipes will be laid in the road carriage way by break opening the tarmac. City Roads are lined both sides with open drains. There are no trees along the proposed roads where pipe laying is being done. Bigger diameter pipes are being laid along the main roads and Highway, which are wide and have adequate space. No tree cutting is anticipated as there is adequate space to lay the pipelines in those roads. No wildlife exists in the municipal areas where water supply pipeline works are proposed. No any ASI or state protected monuments, protected biological areas (sanctuaries or reserves) exist within the project impact areas.

IV Environmental Impact Assessment of Updated scope of works

- 10. As described in Table 1 & 2 scope of works has been updated in pipe line works only in this subproject. As described in Table 2 changes have been made due to various reasons, which are due to change in design, to avoid impact on highway, to facilitate the demand of the area etc. and having positive impacts.
- 11. Project impacts and mitigation measures were identified and described in the Initial Environment Examination report, including those of pipe laying works in proposed areas. There are no additional change of impact due to updated scope of pipe laying as the pipe laying (updated scope) is on the same location/road and same type of topography. No trees or residential or commercial establishments are being affected due to updated scope of works. Impacts on project affected displaced persons (DPs) are being addressed separately in RP.
- **12.** Environmental features and impacts assessment for updated scope of works is given in **Table 3**, whereas mitigation measures for these impacts are already described in IEE, which will be applicable here also.

Table 3: Environmental Impacts of Updated Scope of Works

				Pa	ackage-RUS	SDP/PALI/02		
			Detail For F	Pipeline			Features and potential en	vironmental impacts
S. No.	Section / Reach	Size (mm)	Length of	Pipe (m)	Excess	Reasons of Changes	Features of road (residential/commercial/ road), trees	Potential impacts on environmental features
140.		(111111)	As per BOQ	BOQ As per SIP	Onlanges	,		
1	Manpura Bhakhri TO JN-1	700 mm	4248	5165	917	Length increased as NHAI did not permitted for pipe crossing under ROB	Partly residential, no trees present in alignment, very less traffic, no commercial activities	Sufficient space available for pipe laying, no impact except dust and traffic safety
		700 mm		1505	1505	Between Jn-1 to jn-2	Commercial activities along	Sufficient space
2	JN-1 TO JN-2	500 mm	1502			Dia 500 to 700 mm Changed in design due to increase demand of Nayagoan i.e. 1.46 to 4.25 MLD	the road side, no tree present in alignment	available for pipe laying, no impact except dust, disturbance to vendors and traffic safety
3	RWPS Mandli TO WTP Manpura Bhakri	700 mm	3752	4150	398	Along N H. (DPR rout) 7 pipeline are already laid, so changed alignment through Mandli	Partly Residential and Right of Way (ROW) of NHAI, no commercial activities, no trees present in alignment	Sufficient space available for pipe laying, no impact except dust and traffic safety
	TOTAL		8000	10820	2820	Village		
		3	00 mm			Heavy traffic & underground utilities		
		300 mm	208			on Jodhpur road.	Residential and commercial	Sufficient space
4	JN-3 TO Suraj Pole OHSR	250 mm		300		So, alignment changed along the service road of PHED canal as well	activities, no trees along the alignment	available for pipe laying, dust, noise and traffic safety to be considered
5	JN-9 TO JN-10	300 mm	412	2190		as no need of road	Residential and commercial	Sufficient space
L	5 JN-9 TO JN-10	250 mm	1755			restoration and dia	activities, no trees along the	available for pipe

		200 mm				got changed from original 250 to 300 mm to meet the demand of Jodhpur	alignment	laying, dust, noise and traffic safety to be considered
	TOTAL		620	2190	1570	road and Housing board.		
		400 n	nm					
		450 mm		495		1.New C C road was constructed	Residential and commercial activities, no trees along the	Sufficient space available for pipe
6	JN-6 TO JN-7	400 mm	533			therefore route has	alignment	laying, dust, noise and
		150 mm				been changed.		traffic safety to be
	<u> </u>	450 mm		230		2. Jn-8 has to be		considered
		400 mm		2235		shifted due to pipe route was going to		
7	JN-7 TO JN-8	350 mm	2688			plot area of Deen		
	_	300 mm				Dayal Upadhaya		
		150 mm				colony.		
	labour colony JN	400 mm	2117	1965			Residential and commercial	Sufficient space
8	TO JN-13, Raiko ki dhani OLD OHSR	100 mm					activities, no trees along the alignment	available for pipe laying, dust, noise and traffic safety to be considered
	TOTAL		2650	4200	1550			
		450 n						
	<u>_</u>	450 mm	474		_	Due to revision of	No Residential and No	Sufficient space
7	JN-3 TO JN-4	350 mm		915		Hydraulic design some pipe dia were converted 450mm to 350mm therefore	Commercial along PHED Canal, no trees along the alignment	available for pipe laying, dust and noise impacts to be considered
	JN-1 TO JN-6	500 mm		975		450mm length	Residential, no trees along	Sufficient space
11		450 mm	976			decreased while 350mm increased 450 m.	the alignment	available for pipe laying, dust, noise and traffic safety to be considered
	JN-6 TO JN-7	450 mm		495			Residential, no trees along	Sufficient space
15		400 mm	533				the alignment	available for pipe laying, dust, noise and

		150 mm						traffic safety to be considered
	JN-7 TO JN-8	450 mm		230			Commercial activities, no	Sufficient space
4		400 mm		2235			trees along the alignment	available for pipe
17		350 mm	2688					laying, dust, noise and traffic safety to be considered
	TOTAL		1450	725	-725			
		150 mm				Due to revision of		
	JN-6A TO	150 mm		30		hydraulic design	Residential, no trees along	Sufficient space
9	Shantinath New OHSR	200 mm	23			some pipe dia convert 200mm to	the alignment	available for pipe laying, dust, noise and
10	JN-6A TO Mandia Road OHSR	150 mm	150	90		150mm therefore 150mm length increased 385 M.		traffic safety to be considered
		350 mm	2277			while 200mm decreased 365 m.		
11	JN-8 TO Punayta OHSR	200 mm		1800		decreased 303 III.		
	Fullayla Of ISK	150 mm		695			1	
12	JN-11 to H.B.	200 mm		195				
12	New SR	150 mm	210					
13	JN-12 to Old Labour Colony	150 mm	50	60			Commercial activities, no trees along the alignment	Sufficient space available for pipe
	JN-14 to IND.	200 mm		100			1	laying, dust, noise and
14	Phase-IV New OHSR	150 mm	80					traffic safety to be considered
	TOTAL		490	875	385			
		350 mm				Jn-8 has to be		
		350 mm		2760		shifted due to pipe	Commercial activities, no	Sufficient space
29	JN-2 TO Naya Gaon OHSR	250 mm	2637			route was going through plot area of Deen Dayal Upadhaya colony.	trees along the alignment	available for pipe laying, dust, noise and traffic safety to be considered
31	JN-3 TO JN-4	450 mm	474			From Jn-8 to	No Residential and No	Sufficient space
31	314-3 10 314-4	350 mm		915		Gandhinagar OSHR	Commercial along PHED	available for pipe

		100 mm				length got increased due to shifting of	Canal, no trees along the alignment	laying, dust and noise impacts to be
						location of Jn-08.		considered
		350 mm	599	310			Residential, no trees along the alignment	Sufficient space available for pipe
32	JN-4 TO JN-5, CWR	100 mm					the alignment	laying, dust, noise and traffic safety to be considered
		450 mm		230			Commercial activities, no	Sufficient space
	N. 7. TO N. 0	400 mm		2235			trees along the alignment	available for pipe
33	JN-7 TO JN-8	350 mm	2688					laying, dust, noise and traffic safety to be considered
34	JN-8 to Gandhi Nagar OHSR	350 mm	86	795			No Residential and No Commercial activities nearby the road, no trees along the alignment	Sufficient space available for pipe laying, dust and noise impacts to be considered
		350 mm	2277				Partly residential and partly	Sufficient space
0.5	JN-8 TO	200 mm		1800			commercial activities beside	available for pipe
35	Punayta OHSR	150 mm		695			road, no trees present along the alignment	laying, dust and noise impacts to be considered
		350 mm		1320	1		No Residential and No	Sufficient space
36	CWPS City Campus (HW TO JN-9)	200 mm 1250			Commercial activities nearby the road, no trees along the alignment	available for pipe laying, dust and noise impacts to be considered		
	TOTAL		5650	6100	450			
		200 mm				Due to revision of		
15	JN-4 to Bhatwada ESR	200 mm	615	305		hydraulic design some pipe dia convert 200mm to 150mm therefore 150mm length	Residential, no trees along the alignment	Sufficient space available for pipe laying, dust, noise and traffic safety to be considered
16	JN-5 to PHED ESR	200 mm	221	150		increased 385 M. while 200mm	Inside PHED campus	No impact

					decreased 365 m.	Residential, no trees along	Sufficient space
17	JN-6 to JN-6A	200 mm	300	300		the alignment	available for pipe laying, dust, noise and
							traffic safety to be considered
	IN 04 TO	150 mm		30		Residential, no trees along	Sufficient space
18	JN-6A TO Shantinath New OHSR	200 mm	23			the alignment	available for pipe laying, dust, noise and traffic safety to be considered
		250 mm		252		Residential, no trees along	Sufficient space
19	JN-7 TO Shantinath Old OHSR	200 mm	252			the alignment	available for pipe laying, dust, noise and traffic safety to be considered
		350 mm	2277			Partly residential and partly	Sufficient space
20	JN-8 TO	200 mm		1800		commercial activities beside	available for pipe
20	Punayta OHSR	150 mm		695		road, no trees present along the alignment	laying, dust and noise impacts to be considered
		350 mm		1320		No Residential and No	Sufficient space
21	CWPS City Campus (HW TO JN-9)	200 mm	1250			Commercial activities nearby the road, no trees along the alignment	available for pipe laying, dust and noise impacts to be considered
		200 mm	107	50		Residential, no trees along	Sufficient space
22	JN-10 to Jodhpur road campus	200 mm	39	30		the alignment	available for pipe laying, dust, noise and traffic safety to be considered
		250 mm		685		Residential and commercial	Sufficient space
23	JN-10 TO JN-11					activities, no trees along the	available for pipe
23	JN-10 TO JN-11	200 mm	738			alignment	laying, dust, noise and traffic safety to be considered
24	JN-11 to H.B.	200 mm		195		Residential, no trees along	Sufficient space

	New SR						the alignment	available for pipe
		150 mm	210				and ang. mon	laying, dust, noise and traffic safety to be considered
25	JN-11 TO Housing Board Old OHSR	200 mm	455	525			Residential, no trees along the alignment	Sufficient space available for pipe laying, dust, noise and traffic safety to be considered
		200 mm		90			Residential, no trees along	Sufficient space
26	JN-12 to New Labour Colony	250 mm	373				the alignment	available for pipe laying, dust, noise and traffic safety to be considered
27	JN-14 to IND. Phase-IV Old OHSR	200 mm		90			Industrial area, no trees along the alignment	Sufficient space available for pipe laying, dust, noise and
	JN-14 to IND.	200 mm		100				traffic safety to be
28	Phase-IV New OHSR	150 mm	80					considered
	TOTAL		4000	3635	-365			
		500 mm				Between Jn-1 to Jn-		
		700 mm		1505		2 ,Dia 500 to 700 mm Changed in	Commercial activities along	Sufficient space
2	JN-1 TO JN-2	500 mm	1502			design due to increase demand of Nayagoan i.e. 1.46 to 4.25 MLD therefore length	the road side, no tree present in alignment	available for pipe laying, no impact except dust, disturbance to vendors and traffic safety
		500 mm	418	455		saving in 500mm	Along canal, no residence, no	Sufficient space
5	JN-2 TO JN-3	700 mm				dia.	trees along the alignment	available for pipe laying, no impact except dust, disturbance to traffic
11	JN-1 TO JN-6	500 mm		975			Residential, no trees along	Sufficient space

		450 mm	976				the alignment	available for pipe laying, dust, noise and traffic safety to be considered
	TOTAL		1920	1430	-490			
		250 mm				Between Jn-2 to nayagoan Dia 250 to		
		350 mm		2760		350 mm Changed in	Residential, no trees along	Sufficient space
37	JN-2 TO Naya Gaon OHSR	250 mm	2637			design due to increased demand of Nayagoan i.e.	the alignment	available for pipe laying, dust, noise and traffic safety to be considered
		300 mm	208			1.46 to 4.25 MLD therefore length	Residential and Commercial	Sufficient space
38	JN-3 TO Suraj Pole OHSR	250 mm		300		saving in 250mm dia.	activities along the road side, no tree present in alignment	available for pipe laying, no impact except dust, disturbance to vendors and traffic safety
		250 mm		252			Residential, no trees along	Sufficient space
39	JN-7 TO Shantinath Old OHSR	200 mm	252				the alignment	available for pipe laying, dust, noise and traffic safety to be considered
		300 mm	412	2190			Residential, no trees along	Sufficient space
40	INLOTO INLAO	250 mm	1755				the alignment	available for pipe
40	JN-9 TO JN-10	200 mm						laying, dust, noise and traffic safety to be considered
		250 mm		685			Residential and commercial	Sufficient space
41	JN-10 TO JN-11	200 mm	738				activities, no trees along the alignment	available for pipe laying, dust, noise and traffic safety to be considered
42	JN-12 to New Labour Colony	200 mm		90			Residential, no trees along the alignment	Sufficient space available for pipe laying, dust, noise and traffic safety to be considered

		250 mm	373				
43	JN-13 to New Raiko ki dhani	250 mm		85		Commercial activities along the road side, no tree present in alignment	Sufficient space available for pipe laying, no impact except dust, disturbance to vendors and traffic safety
44	JN-12 TO JN-14	250 mm	2785	2845		Commercial activities along the road side, no tree present in alignment	Sufficient space available for pipe laying, no impact except dust, disturbance to vendors and traffic safety
45	CWPS Mandli To Mandiya Village OHSR	250 mm	5950	6800		Along National Highway, no trees, no residences and no commercial activities	Sufficient space available for pipe laying, no impact except dust
	TOTAL Mt	rs.	13500	10967	-2533		
	Grand Total	Mtrs.	38157	40952	2626		

V. Public Consultation

- **13.** Public consultations with different stakeholders like line departments, residents, road users, shopkeepers and businessmen etc. are continuously being done and reported through quarterly and semi-annual monitoring reports. Grievance redress mechanism as mentioned in IEE is fully functional.
- **14.** Public consultations were also done during preparation of this addendum with nearby residents of changed pipe alignments to disclose the updated scope of works to them and obtain their opinion and suggestions and problems encountered due to proposed works. Report of public consultations is attached as **Appendix 4** with this addendum.
- **15.** During public consultations it was found that public and residents want to finish the work well in time, provide access for houses and shops, reduction of dust during excavation, traffic safety etc. Public is satisfied with the ongoing works for improved water supply in town and ready to bear some disturbances in their routine works for better water supply in future.

VI. Field Based Environmental Due Diligence

- **16.** This chapter ascertains presence of any residual environmental impacts due to implementation of works on account of changes in sub-projects locations and other additional scope, and suggests appropriate, time-bound corrective measures to address those residual environmental impacts.
- **17.** EMP is part of contract documents. Mitigation measures as per EMP are already implemented in pre-construction stage and currently being practiced during construction stage of the project. All the mitigation measures suggested in EMP for operation stage shall also be complied.
- **18.** Statutory permissions required and applicable for the project are being taken by contractor/PIU/line agencies. Periodical testing of environmental parameters (air, noise, water and soil) are being done as per approved IEE. Testing results show that all the parameters of ambient air, noise, water and soil are within the permissible limits/baseline stage.
- 19. Public/stakeholder consultations are done during design phase and pre-construction stages with different stakeholders such as PHED, Municipal Council, residents, shopkeepers and road users etc. Such consultations are continued throughout the construction phase and being regularly reported in quarterly and semi-annual reports. Public consultations were also done for updated scope of works and reported in this addendum.
- **20.** Well established grievance redress mechanism, as described in IEE is operating in the project. No major significant grievances are received so far. Most of the grievances are for minor issues like housekeeping, disturbance of utilities, access to residences are being addressed within stipulated time of 1-3 days within PIU level.

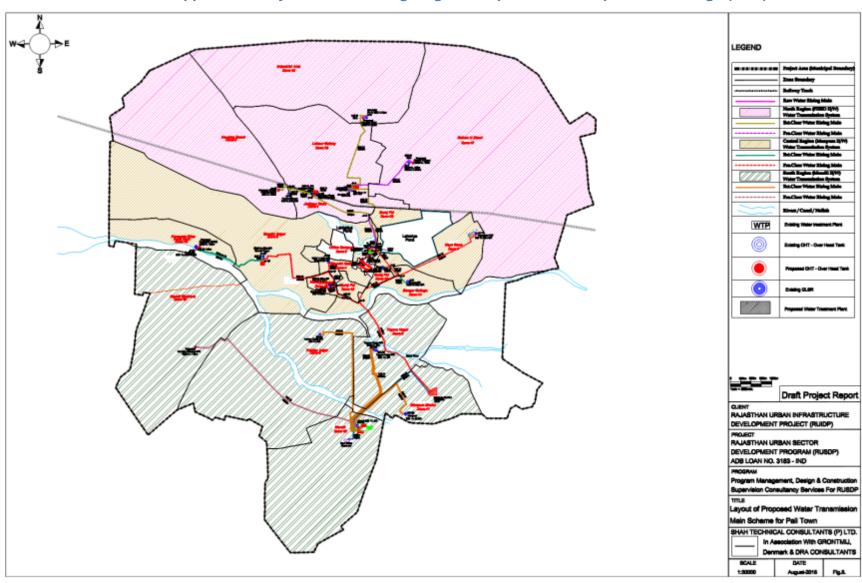
Safeguard team, comprising PMDSC, CAPC and contractor's personnel is actively participating in addressing grievances from public/stakeholders.

21. All the impacts arising due to updated scope of works can be mitigated through the mitigation measures given in EMP. No any environment impact of new nature was anticipated during impact assessment of updated scope of works and no residual impacts are identified after preparation of this addendum to the IEE.

VII. Conclusion

- 22. The process described in IEE document had assessed the environmental impacts of all elements of the Pali Bulk Water System subproject. All potential impacts were identified in relation to pre-construction, construction, and operation phases. Planning principles and design considerations have been reviewed and incorporated into the site planning and design process wherever possible; thus, environmental impacts as being due to the project design or location were not significant. During the construction phase, impacts mainly arise from the construction dust and noise, the need to dispose of large quantities of waste soil and import a similar amount of sand to support the pipes in the trenches; and from the disturbance of residents, businesses, traffic and important buildings by the construction work. The temporary impacts (access disruptions) due to construction activities are unavoidable, as the residential and commercial establishments exist along some roads (refer Table 3) where pipes will be laid. A separate resettlement plan has been developed to address temporary disturbances to vendors, in accordance with ADB SPS 2009 and Government of India laws and regulations.
- **23.** Public consultations are done in design and pre-construction stages, whereas public consultations are ongoing throughout the construction stage. Grievance redress mechanism is well established in the project and functioning as per requirement of ADB SPS.
- 24. As discussed in earlier sections there are no changes in nature of impacts due to updated scope of works, therefore no separate mitigation measures are required to be addressed in this addendum and mitigation measures as provided in IEE is sufficient to deal with updated scope of works as mentioned in this addendum. Therefore, as per ADB SPS, the project is classified as environmental category B and does not require further environmental impact assessment.

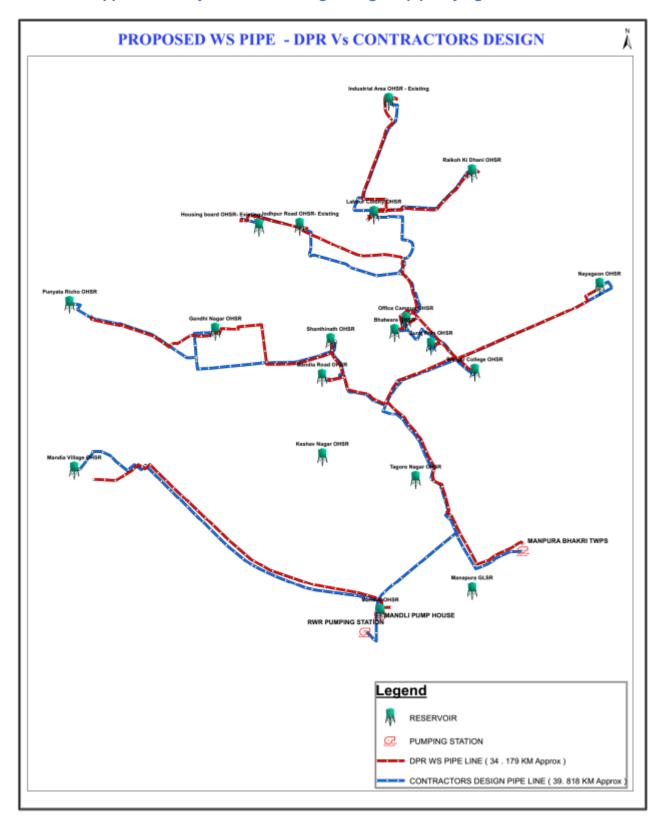
Appendix 1: Layout Plan showing Original scope of works as per Detail Design (DPR)



RAJASTHAN URBAN SECTOR DEVELOPMENT PROGRAM (RUSDP) BULK WATER SUPPLY SYSTEM FOR PALI

Appendix 2: Layout Plan Showing updated scope of works as per SIP

Appendix 3: Layout Plan showing Change in pipe laying works



Appendix 4: Public Consultations Public Consultation at prominent locations of changed scope of works

S.N.	Date	Area	Consulted Persons	Consultation Objective and topics discussed	Outcome of Consultation	Photos
1	11/10/2018	Mastan Baba to Shivaji Circle (JN-1 to JN-2)	1- Pawan 2- Rahul 3- Mod. Rasid 4- Suraj 5- Mod. Aslam	 About information of RUIDP work and their benefit. About updated aliment and probable disturbance due to Pipe line laying. Required participation and coordination in RUIDP work. Information about grievance redress mechanism of RUIDP Any suggestion for proposed works 	 People are ready to cooperate in the proposed works and to bear some disturbance due to proposed works They suggested that works should be finished quickly to avoid long duration of disturbance People want traffic safety and housekeeping during construction works 	FRICE SPOND OF FOR
2	11/10/2018	Subash Nagar (JN- 9 to JN-10)	6- Kishan Banjara 7- Ramesh 8- Radheshyam	 About information of RUIDP work Water Supply Pipe line and their benefit. About chances of Noise, dust due to works of Pipe line laying. Participation and coordination of residents in RUIDP work. Information about grievance redress mechanism of RUIDP Any suggestion about the project and proposed works 	 People are aware of proposed works of RUIDP and ready to cooperate in the proposed works and to bear some disturbance due to proposed works People want mitigation measures to be adopted to reduce noise and dust during construction works People appreciated the grievance redress mechanism 	E 137 20 20 20 20 20 20 20 20 20 20 20 20 20

					and ensured to inform in time if any difficulty is faced during construction works	
3	12/10/2018	Village - Mandli (RWPS to WTP)	9- Babu Lal 10- Hari Ram 11- Nemi chand 12- Chagan	 About information of RUIDP work laying of Pipe line and their benefit. About aliment and Dia of Pipe line and probability of generation of Noise, dust due to works of Pipe line laying. Information about grievance redress mechanism of RUIDP Movement of any wildlife in the area 	People are ready to cooperate in the proposed works and to bear some disturbance due to proposed works They suggested that works should be finished quickly to avoid long duration of disturbance People confirmed that there is no wildlife movement reported in the area	
4	12/10/2018	Village Manpura Bhakri (Manpurabh akri to to JN-01)	13- Lunga 14- Tulsi Bai 15- Asha 16- Sharvan 17- Bhawri	 About information of RUIDP work and their benefit, Disturbance due to Pipe line laying. Participation and coordination of RUIDP work . Information about grievance redress mechanism of RUIDP Movement of any wildlife in the area 	People are ready to cooperate in the proposed works and to bear some disturbance due to proposed works They suggested that works should be finished quickly to avoid long duration of disturbance People confirmed that there is no wildlife movement reported in the area	

Attendance Sheets of Public Consultations

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