



Environmental Monitoring Report

Project Number: 40031
December 2009

IND: Rajasthan Urban Sector Development Investment Program

Prepared by Local Self Government Department

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I. INTRODUCTION

A. Background

1. Rajasthan Urban Sector Development Investment Program (RUSDIP) is intended to optimize social and economic development in 15 selected towns in the State, particularly district headquarters and towns with significant tourism potential. This will be achieved through investments in urban infrastructure (water supply; sewerage and sanitation; solid waste management; urban drainage; urban transport and roads), urban community upgrading (community infrastructure; livelihood promotion) and civic infrastructure (art, culture, heritage and tourism; medical services and health; fire services; and other services). RUSDIP will also provide policy reforms to strengthen urban governance, management, and support for urban infrastructure and services. The assistance will be based on the State-level framework for urban reforms, and institutional and governance reforms recommended by the Government of India (GoI) through the Jawaharlal Nehru National Urban Renewal Mission (JNNURM) and Urban Infrastructure Development Scheme for Small and Medium Towns (UIDSSMT).

2. RUSDIP Phase II to be implemented over a seven year period beginning in 2008, and will be funded by a loan via the Multitranchise Financing Facility (MFF) of the ADB. The Executing Agency (EA) is the Local Self-Government Department (LSGD) of the Government of Rajasthan (GoR); and the Implementing Agency (IA) is the Project Management Unit (PMU) of the Rajasthan Urban Infrastructure Development Project (RUIDP), which is currently in the construction stage (Tr-1 & Tr-2). Alwar, Jaisalmer and Jhalwar/ Jhalrapatan are the towns chosen to benefit from the first tranche of RUSDIP investment. While 12 other towns namely, Bharatpur, Karauli, Dholpur, Sawai Madhopur, Churu, Sikar, Barmer, Nagaur, Chittorgarh, Rajsamund, Bundi and Baran-Chabra are considered under tranche 2 (Tr-2).

B. Project Purpose

3. RUSDIP will improve infrastructure through the development, design and implementation of a series of subprojects, each providing improvements in a particular sector (water supply, sewerage, solid waste etc) in one town. RUSDIP has been classified by ADB as environmental assessment category B (some negative impacts but less significant than category A) and the impacts of subprojects were assessed through Initial Environmental Examination (IEE) reports prepared according to ADB Environment Policy (2002) and Environmental Assessment Guidelines (2003).

4. The nature of the sub-projects may change during their subsequent development, particularly during detailed design. This report is the Environmental Monitoring Report (EMR) to describe the implementation of the mitigation measures and monitoring recommended in the IEE and summary Initial Environmental Examination (SIEE).

C. Project Profile

5. Till 31st December 2009, 13 environmental sensitive sub-projects under Tranche 1 have been awarded. Out of those 13 sub-projects, 7 packages in Alwar, 5 packages in Jaisalmer have been started and 1 package of water supply started at Jhalawar-Jhalrapatan. Actual field work started for 11 sub-projects for Tranche 1. Out of the 11 packages two packages, one at Alwar (**RUSDIP/TR-01/ALW-JHL/WS-01 Lot-1**) and other at Jaisalmer (**RUSDIP/TR-01/ JSL/DR-01**) under completion stage. **Table 1** shows the project components, starting date of implementation, schedule date of completion etc. along with physical progress for Tranche 1.

Table 1: Sub-project status- Tranche 1

Locations	Sub-projects components (Package No.)	Starting date of Implementation	Projected months of completion	Schedule date of completion (Extended date of completion)	Physical progress (%) as on 31.12.09
Alwar	Water Supply- Replacement of in-efficient pumping machinery of pump houses and tube wells including electrical equipments; replacement of riser pipes and submersible cables in tube wells; providing and installation of chlorination equipments, etc. in Alwar. {RUSDIP/TR-01/ALW-JHL/WS-01 Lot-1 (Alwar)}	23.06.2008	12	22.06.2009 (22.02.2010)	98%
Alwar	Water Supply - Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and replacement of Leaking pipelines and rising main pipelines; Construction and Commissioning of Elevated Service Reservoirs. {RUSDIP/TR-01/ ALW/WS-02}	09.09.2008	24	08.09.2010	35%
Alwar	Waste water - Providing, Laying, Jointing, Testing and Commissioning part of outfall sewer of 1000 mm dia HDPE pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar. {RUSDIP/ TR-01/ ALW/WW/01- Lot2}	15.12.2008	12	14.12.2009 (14.03.2010)	11%
Alwar	Waste water - Providing, Laying, Jointing, Testing and Commissioning of outfall/ trunk sewers of 800 to 1200 mm RCC pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar {RUSDIP/ TR-01/ALW/WW/02 (Lot-1)}	10.07.2009	24	09.07.2011	15%

Locations	Sub-projects components (Package No.)	Starting date of Implementation	Projected months of completion	Schedule date of completion (Extended date of completion)	Physical progress (%) as on 31.12.09
Alwar	Waste water - Design, Construction, Supply, Erection, Testing, Commissioning and five years Operation & Maintenance of 20 MLD Sewage Treatment Plant (WSP) near Agyara village including all Civil, Electrical, Mechanical, Pumping and other allied works etc. at Alwar {RUSDIP/ TR-01/ALW/WW/02 (Lot-2)}	22.08.2009	24	21.08.2011	No physical progress
Alwar	Bridge/ROB - Construction of Approaches & Viaduct spans of ROB at Itarana Level Crossing no. 117 in Alwar {RUSDIP/ TR-01/ ALW/BR/01}	13.07.2009	24	12.07.2011	11%
Alwar	Solid waste - Development of Sanitary landfill Site in Alwar {RUSDIP/TR-01/ALW/SW/05}	24.08.2009	12	23.08.2010	No physical progress
Jaisalmer	Water Supply - Design, Supply, Construction, installation and Commissioning of Raw Water pumping Station at Mohangarh, Jaisalmer and providing, laying, jointing and commissioning of 600 mm dia pipeline approx. 57 Km from Mohangarh to WTP Gajroopsar, Jaisalmer and O & M {RUSDIP/TR-01/ JSL/WS-01}	12.07.2009	24	11.07.2011	1.5 %
Jaisalmer	Water Supply - Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and rising main pipeline; Construction and Commissioning of Elevated service reservoirs and providing pumping system and ancillary works { RUSDIP/TR-01/ JSL/WS-02}	09.09.2008	24	08.09.2010	24%
Jaisalmer	Waste water - Sewerage and Waste stabilization Ponds in Phase-I in Jaisalmer {RUSDIP/TR-01/ JSL/WW-01}	11.08.2008	30	10.02.2011	18 %

Locations	Sub-projects components (Package No.)	Starting date of Implementation	Projected months of completion	Schedule date of completion (Extended date of completion)	Physical progress (%) as on 31.12.09
Jaisalmer	Drainage - Construction of new drains and minor bridges in Jaisalmer {RUSDIP/TR-01/ JSL/DR-01}	08.07.2008	18	07.01.2010	98%
Jaisalmer	Solid Waste- Development of sanitary landfill sites in Jaisalmer {RUSDIP/TR-01/ JSL/SW-07}	24.08.2009	12	23.08.2010	5%
Jhalawar-Jhalrapatan	Water Supply - Improvement of intake structures; Replacement of pumping machinery; rehabilitation of old WTP's; Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the distribution system and rising mains; Construction and Commissioning of SRs {RUSDIP/TR-01/ JHL/WS-02}	02.09.2008	24	01.09.2010	35%

* In addition 5 common packages for procurement of SWM equipment are under progress

6. Similarly for **Tranche 2**, 12 environmental sensitive sub-projects have been awarded. Out of those 12 sub-projects, 2 packages in Sawai Madhopur and Sikar, 1 package each in Chittorgarh, Karauli, Nagaur, Baran, Churu, Bharatpur Bundi and Barmer have been started. Actual field work is commenced only for **5 sub projects**. **Table 2** shows the project components, starting date of implementation, schedule date of completion etc. along with physical progress for Tranche 2.

Table 2: Sub-project status- Tranche 2

Locations	Sub-projects components (Package No.)	Starting date of Implementation	Projected months of completion	Schedule date of completion	Physical progress (%) as on 31.12.2009
Sikar	Drainage: Construction of storm water drainage in Sikar { RUSDIP/TR-2/SKR/DR/01}	11.07.2009	24	10.07.2011	9%
Sikar	Waste water: Design, Construction, Supply, erection testing, commissioning and five years operation & maintenance of Sewage Treatment plant 10 MLD near 132KVGSS including all civil, electrical, mechanical, pumping and other allied works and Supply, laying, joining, testing and commissioning of outfall sewer, various Trunk sewers, collecting and lateral	16.07.2009	30	15.01.2012	2%

Locations	Sub-projects components (Package No.)	Starting date of Implementation	Projected months of completion	Schedule date of completion	Physical progress (%) as on 31.12.2009
	sewers connecting to out fall sewer, along with all necessary manholes, appurtenances etc. at Sikar {RUSDIP/ TR-02/ SKR/ WW/01}				
Chittorgarh	Bridge: Construction of 2 nos. high level bridge on river Gambhiri & Bedach in Chittorgarh {RUSDIP/TR-02/CHT/BR/01}	12.07.2009	24	11.07.2011	14%
Karauli	Water Supply: Construction of OHSRs and balancing reservoir including Providing, Laying, Jointing, Testing and Commissioning of DI pipelines in Distribution system and Transmission system; and replacing of existing leaking pipelines; Replacement of Water Meters for UWSS in Karauli town {RUSDIP/ TR-02/ KRL/WS/01}	15.07.2009	24	14.07.2011	5%
Nagaur	Water Supply: Construction of OHSRs and CWRs including Providing, Laying, Jointing, Testing and Commissioning of uPVC and DI pipelines in Distribution system and Transmission system; Construction of Pumping stations and ancillary works; Replacement of Water Meters for UWSS in Nagaur town {RUSDIP/ TR-02/ NGR/WS/01}	21.08.2009	24	20.08.2011	No physical progress
Baran	ROB: Construction of 2 lane ROB at level crossing no. 37 on NH 76 at Baran {RUSDIP/ TR-02/ BRN/BR/02}	21.08.2009	24	20.08.2011	3% Just Started
Sawai Madhopur	ROB: Construction of Railway over Bridge at Kherda Railway crossing (on NH-116 at level crossing no. T/2-B) at Sawai Madhopur {RUSDIP/TR-02/ SMD/BR/01}	21.08.2009	24	20.08.2011	5%

Locations	Sub-projects components (Package No.)	Starting date of Implementation	Projected months of completion	Schedule date of completion	Physical progress (%) as on 31.12.2009
Sawai Madhopur	Waste Water: Design, Construction, Supply, erection testing, commissioning and five years operation & maintenance of Sewage Treatment plant 10 MLD near Surwal Village including all civil, electrical, mechanical, pumping and other allied works and Supply, laying, joining, testing and commissioning of outfall sewer, various Trunk sewers and lateral sewers connecting to out fall, along with all necessary manholes, appurtenances, etc. at Sawai Madhopur { RUSDIP/ TR-02/ SMD/WW/02 }	04.11.2009	30	03.05.2012	No physical progress
Churu	ROB: Construction of 2 lane ROB at level crossing no. 168C, on Churu-Fatehpur (NH-65) { RUSDIP/TR-2/CHU/BR/01 }	25.08.2009	24	24.08.2011	No physical progress
Barmer	Waste Water: Design, Construction, Supply, Erection, Testing, Commissioning and five years Operation & Maintenance of Sewage Treatment plant 10 MLD including all Civil, Electrical, Mechanical, Pumping and other allied works and Supply, Laying, Joining, Testing and Commissioning of Outfall sewer, various Trunk sewers, collecting and lateral sewers along with all necessary manholes, appurtenances etc. at Barmer { RUSDIP/ TR-02/ BMR/ WW/02 }	03.09.2009	30	02.03.2012	No physical progress
Bundi	Water Supply: Construction of OHSRs and CWRs including Providing, Laying, Jointing, Testing and Commissioning of uPVC and DI pipelines in Distribution system and Transmission system; Construction of Tubewells; Construction of Pumping stations; Replacement of Water Meters for UWSS in Bundi town. { RUSDIP/ TR-02/ BND/WS/02 }	03.11.2009	24	02.11.2011	Just awarded no physical progress

Locations	Sub-projects components (Package No.)	Starting date of Implementation	Projected months of completion	Schedule date of completion	Physical progress (%) as on 31.12.2009
Bharatpur	Drainage: Construction of storm water drainage system at Ramnagar, Domar & Kali Bagichi to Golabag at Bharatpur {RUSDIP/ TR-02/ BPR/DR/01}	20.11.2009	24	19.11.2011	Just awarded no physical progress

II. IMPLEMENTATION PROGRESS

A. Major Works and Progress

7. On date project works started in all the 3 towns under Tranche 1 and 10 towns (out of 12) under Tranche 2 for water supply, waste water, drainage and solid waste management sector. In few of the towns works just commenced. Significant physical progress will be expected during next quarter. **Table 3** and **4** shows summary of the scope of works along with present work status. Also expected changes from the approved objectives, remedial measures for fulfillment of objective and key risks/ assumption for attainment of objectives are mentioned in the table.

8. Monitoring and reporting on Environmental and Social safeguard have been started. At present no as such adverse effect of project activities on social and environmental components.

Table 3: Major works and progress- Tranche 1

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
Alwar	Water Supply- Replacement of in-efficient pumping machinery of pump houses and tube wells including electrical equipments; replacement of riser pipes and submersible cables in tube wells; providing and installation of chlorination equipments, etc. in Alwar. {RUSDIP/TR-01/ALW-JHL/WS-01 Lot-1 (Alwar)}	<ul style="list-style-type: none"> o Replacement of pumps at 7 locations- Tuleda, HKM nagar, Malviya nagar, Manu marg, scheme no 2, Kala Kuan and Sivaji park o Submersible pump sets - replacement of pipes & machinery– 104 nos. o uPVC rising main for tube well – 13.15 km o Chlorinator at 4 locations – Tuleda, Vijay mandir, Kala kuan, Malviya nagar 	<ul style="list-style-type: none"> • Replacement of pumping machinery of 69 TWs completed • Replacement of 17 numbers centrifugal pump completed- rest 2 under progress • 35 nos. stand-bye submersible pump set delivered. 	No other changes expected on date	<ul style="list-style-type: none"> o Effective monitoring and application of EMP 	Replacement of 2 nos. centrifugal pumps are pending due to public agitation on interconnection of pipelines.
Alwar	Water Supply - Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and replacement of Leaking pipelines and rising main pipelines; Construction and Commissioning of Elevated service reservoirs. {RUSDIP/TR-01/ ALW/WS-02}	<ul style="list-style-type: none"> o Rising mains DI pipe 100-300 dia. of 8.9 km, uPVC pipe of 3.5 km o Distribution mains of DI pipe 100 – 450 mm dia. of 3.13 km; uPVC pipe of 90- 315 mm dia. of 70.5 km o 2 CWRs at Ladia bagh and Kala kuan o 9 OHSRs at Ashok vihar, Scheme 2, Scheme 10, Tej Mandi, Johda Patel nagar, Pratap school, Kala kuan, Manu marg, Scheme no. 1 o New pump house at Ladia bagh (2 pumps) 	OHSR under progress- <ul style="list-style-type: none"> • OHSRs at Tej Mandi: RCC work Completed, Piping work under progress. • OHSRs at Scheme No.: 2- RCC work Completed, Piping work under progress. • OHSRs at Manu Marg: Bottom Dom, conical wall completed • OHSRs at Pratap school: Column height completed, reinforcement and shuttering for bottom dome, conical wall in 	For Scheme no. 1 OHSR alternate land has been identified in Public Park in front of Hari Baba Satsang Bhawan - <i>Open land - No additional Environmental impact expected</i> No other change expected on date	<ul style="list-style-type: none"> o Effective monitoring and application of EMP o Possession of New Land have been received 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
		<ul style="list-style-type: none"> ○ Replacement of pumps at Manu marg and Bank colony ○ House connection 20 mm – 1000 nos. (excluding meter) 	<p>progress.</p> <ul style="list-style-type: none"> • OHSRs at Ashok Vihar: Bottom Dome, conical wall completed. 4th lift of vertical wall in progress. • OHSR Scheme No 10: Column height completed reinforcement and shuttering for bottom dome, conical wall in progress. • OHSRs at Kala Kuan: PCC completed reinforcement of raft in progress. • OHSRs at Jodha Patel Nagar: Earth work completed. • CWRs at Ladia ground: Earth work completed. Gravel packing in progress. • CWRs at Kala Kuan : Decision yet to taken on capacity of CWR <p><u>Pipe Laying</u> 5.10 Kms of rising main pipe line laid and 43.70 KM distribution main laid</p>			

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
Alwar	Waste water - Providing, Laying, Jointing, Testing and Commissioning part of outfall sewer of 1000 mm dia HDPE pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar. {RUSDIP/ TR-01/ ALW/WW/01- Lot2}	<ul style="list-style-type: none"> ○ HDPE outfall of 1550 m through trench less technology 	<ul style="list-style-type: none"> ● Survey and design completed ● 200 m pipe procured, 174 m laid – rest laying under progress 	No change expected	<ul style="list-style-type: none"> ○ Not required till date 	No risk
Alwar	Waste water- Providing, Laying, Jointing, Testing and Commissioning of outfall/ trunk sewers of 800 to 1200 mm RCC pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar. {RUSDIP/ TR-01/ ALW/WW/02 Lot-1}	<ul style="list-style-type: none"> ○ Laying of Outfall/ trunk sewer 800- 1200 mm dia. for the length of 16.525 km ○ Construction of manholes, appurtenances ○ Restoration of roads as impacted 	<ul style="list-style-type: none"> ○ Confirmatory Survey completed. ○ Manufacture of pipes started and about 4.1 km pipe of 800 and 1200 dia has manufactured 2.0 km procured at site. ○ 0.5 km pipe of 1200mm dia laid. ○ Permission for tree cutting is taken. 	No change expected	<ul style="list-style-type: none"> ○ Effective monitoring and application of EMP 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
Alwar	Waste water - Design, Construction, Supply, Erection, Testing, Commissioning and five years Operation & Maintenance of 20 MLD Sewage Treatment Plant (WSP) near Agyara village including all Civil, Electrical, Mechanical, Pumping and other allied works etc. at Alwar {RUSDIP/ TR-01/ALW/WW/02 (Lot-2)}	<ul style="list-style-type: none"> o Construction of 20 MLD WSP type Sewage Treatment Plant near Agyara Dam. o Plantation of trees at STP site. o Shifting of LT & HT Lines in the required stretch. o Construction of drain to divert the water from Hans Sarovar Dam and carry the effluent from STP up to the existing <i>nallah</i> 	<ul style="list-style-type: none"> • Necessary approval from pollution control board has been obtained. • Confirmatory survey for the STP land is in progress. • Design and drawings for STP and demarcation of land by contractor in progress 	No change expected	Effective monitoring and application of EMP	No risk
Alwar	Bridge - Construction of Approaches & Viaduct spans of ROB at Itarana Level Crossing no. 117 in Alwar {RUSDIP/ TR-01/ALW/BR/01}	<ul style="list-style-type: none"> o Construction of Two Lane Bridge connecting Itarana Road to Station Road towards Station. o Construction of 8 no Via Duct (1 no. on Alwar side and seven nos. on Itarana side) and construction of Reinforced Earth Retaining wall 650 mtrs. o Total length of ROB is 850 Mtrs. o Central portion (32.9 Mtr skew lengths) is to be constructed by Railway. 	<ul style="list-style-type: none"> • Necessary approval from Railway authorities taken. • Test Pile constructed and tested on load. • Work of NCC building in Polytechnic collage campus completed. Only finishing in process. • Pipe line shifting work completed • 33 KV electric line shifting. <p>43 Piles casted, 2 Pile cap casted- Rest under progress</p>	No change expected	Effective monitoring and application of EMP	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
Alwar	Solid waste - Development of Sanitary landfill Site in Alwar {RUSDIP/TR-01/ALW/SW/05}	<ul style="list-style-type: none"> o Construction of Landfill site 	Yet to be started	No change expected	Effective monitoring and application of EMP	No risk
Jaisalmer	Water supply - Design, Supply, Construction, installation and Commissioning of Raw Water pumping Station at Mohangarh, Jaisalmer and providing, laying, jointing and commissioning of 600 mm dia pipeline approx. 57 Km from Mohangarh to WTP Gajroopsar, Jaisalmer and O & M (RUSDIP/TR-01/ JSL/WS-01)	<ul style="list-style-type: none"> o Construction of new pumping station at Mohangarh o Laying, jointing and commissioning of 600 mm dia. raw water pipeline from Mohangarh to WTP at Gajroopsar 	<ul style="list-style-type: none"> • Confirmatory survey completed • 870 m pipe procured 600 m pipe laid 	No change expected	Effective monitoring and application of EMP	No risk
Jaisalmer	Water Supply - Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and rising main pipeline; Construction and Commissioning of Elevated service reservoirs and providing pumping system	<ul style="list-style-type: none"> o Rising main of 7.5 km – 200-350 mm dia. DI pipe o Construction testing & commissioning of 3 nos. ESR's at Union Circle, Gafur Bhatta & Jai Narayn Vyas colony. o 62.3 km distribution pipeline of 90 to 315 mm dia uPVC o New pumping station at 	<ul style="list-style-type: none"> • Total procurement for DI & uPVC Pipe is 31.5 km, Out of which 9 Km pipe is laid • Laying of uPVC pipe is in progress • Foundation of Gafur Bhatta OHSR is completed - rest under progress 	No change expected till date.	<ul style="list-style-type: none"> o Effective monitoring and application of EMP o Permission of land for ESR at JNV Colony & Union Circle received 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
	and ancillary works {RUSDIP/TR-01/ JSL/WS-02}	Guffur Bhata o Arrangement of new pumps at WTP sites for Union Circle and Gausala				
Jaisalmer	Waste water - Sewerage and Waste stabilization Ponds in Phase-I in Jaisalmer {RUSDIP/TR-01/ JSL/WW-01}	o 10 MLD STP (WSP technology) near village Kishan Ghat o Outfall sewer (700 – 1000 mm dia) of 5384 m o Sub mains- laterals – (350-600 mm dia.) of 44.3 km	<ul style="list-style-type: none"> 13.5 km RCC and 6 Km uPVC Pipe is procurement, out of which 7 Km RCC and 2.5 km uPVC Pipe is laid- rest under progress. Work for 16 Man Hole is completed rest under progress Excavation work in progress for Anaerobic pond & Facultative Pond is almost completed. 	No change expected	<ul style="list-style-type: none"> Dust emissions are being controlled by spray of water over the excavated soil. Effective monitoring and application of EMP 	No risk
Jaisalmer	Drainage - Construction of new drains and minor bridges in Jaisalmer {RUSDIP/TR-01/ JSL/DR-01}	o Construction of drain sections- Drain 1: Left Side of Jaisalmer-Jodhpur Railway line beyond Ramgarh Bye-Pass Road (850 m long), Drain 2: Opposite BSF HQ & Left Side of Bikaner - Jaisalmer N.H. - To in Between BSF & Baba Baori- To Ramgarh Bye-Pass	<ul style="list-style-type: none"> Construction work for Drain no.:- 1, 3, and 4 is completed Out of two culverts, work for one culvert is completed. Work for approach road for culvert is under completion. Drain 2 deleted from scope, because of land 	No change expected	o Effective monitoring and application of EMP	Delay in getting Permission for Drain no.:-2

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
		<p>Road (1463 m long), Drain 3: Right side of Jaisalmer - Jodhpur Railway Line beyond Ramgarh Bye Pass Road (2250 m long), Drain 4: Opposite Gulab Sagar & Left Side of Jaisalmer-Bikaner N.H. in Railway Boundary upto Ramgarh Bye-Pass Road (1150 m long)</p> <ul style="list-style-type: none"> o Construction of bridges <p>Bridge1: Bridge at RD 550 of drain No 2 across Bikaner - Jaisalmer National Highway No. 15 at its Km 326.950 Bridge 2: Bridge at RD 1150 of drain No 4 across Ramgarh Bye pass road</p> <ul style="list-style-type: none"> o Reconstruction of BT road 	owner ship, and contractor period is also near completion.			
Jaisalmer	Solid Waste- Development of sanitary landfill sites in Jaisalmer {RUSDIP/TR-01/JSL/SW-07}	<ul style="list-style-type: none"> o Development of engineered Landfill site 	<ul style="list-style-type: none"> • Excavation of trenches in progress • Building work is in progress (upto lintel level) 	No change expected	<ul style="list-style-type: none"> o Dust emissions are being controlled by spray of water over the excavated soil. o Effective monitoring and application of EMP 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
Jhalawar-Jhalrapatan	<p>Water Supply - Improvement of intake structures; Replacement of pumping machinery; rehabilitation of old WTP's; Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the distribution system and rising mains; Construction and Commissioning of SRs {RUSDIP/TR-01/ JHL/WS-02}</p>	<p>Intake pump replacement/rehabilitation work at Kali Sindh River intake - Peepa ji ki Dev (Jhalawar), Bhawarsa Deh (Jhalrapatan) Rising mains of 5.1 km of 400 mm dia. DI pipe 9 new ESRs - <i>Jhalawar 6 and Jhalrapatan 3</i> - at Radi ke Balaji, Dhanwara, Near Balaji ki Chhatri, Police station, Garh palace, housing board colony, Senior Sec. School, S.T.C ground, Subhash colony Rehabilitation of old WTP's , rehabilitation of pump house at Radi ke Balaji , Mundliya Kheri Distribution mains of 80-200 mm dia DI pipes of 76.8 km Water Testing Laboratory at Balaji ki Chhatri campus of PHED</p>	<p>The following works are in progress: <u>Jhalawar</u> • Intake Works: Replacement of rails and MS pipe completed – rest under progress • Lab Building: Brick work up to slab level completed – rest under progress • ESRs <ul style="list-style-type: none"> ○ Housing Board Colony: Casting of top dome completed – completion stage ○ Radi-Ke-balaji: Casting ring beam, bottom dome, cone wall and balcony completed – rest under progress ○ Dhanwara: Casting of vertical wall completed. Conical dome under progress. ○ Balaji-ki-chatri: Casting of ring beam, bottom dome, cone wall and balcony under progress at Balaji ki Chhatri OHSR. ○ Police Station/Kasba Brij nagar : P.C.C for </p>	<p>No change is expected except change in location of OHSR (Police station to Kasba Brij nagar, and Garh palace to Topkhana) – <i>Open land no additional environmental impact expected due to shifting of location</i></p>	<ul style="list-style-type: none"> ○ Effective monitoring and application of EMP ○ Possession of land for Senior Secondary School, Kasba Brij nagar, and Topkhana obtained 	<p>No risk</p>

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
			<p>RAFT completed at PHED (Police station)- rest under progress</p> <ul style="list-style-type: none"> ○ Topkhana: 1 st lift of column after 1 st brace completed – rest under progress <p><u>Jhalrapatan</u></p> <ul style="list-style-type: none"> ● Intake Works - Rail Both Side completed at Banswara -ESRs ○ STC Ground: Casting of 1st lift of column after raft beam completed at STC ground- rest under progress ○ Subhash colony: Casting of column completed up to bottom of 1 st bracing- rest under progress <p>Rising main- 8.71 km completed- rest under progress</p> <ul style="list-style-type: none"> ● Distribution mains- 29.8 km completed- rest under progress 			

Table 4: Major works and progress- Tranche 2

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
Sikar	Drainage - Construction of storm water drainage in Sikar (RUSDIP/TR-2/SKR/DR/01)	<ul style="list-style-type: none"> ○ New drain (approx. 1.935 km) from Roadways Bus stand to Dujod Gate-different sections as follows <ul style="list-style-type: none"> ➤ Drain starts from Housing Board colony along Road ways bus stand ends at corner of Bus stand ➤ Drain- Bus stand area ➤ Drain – from bus stand circle goes to Bajaj Circle along Devipura road and ends at Bajaj Circle. ➤ Drain from Bajaj Circle goes to Ajmer Bus stand along Devipura road and ends at road triangle at Ajmer bus Stand. ➤ Drain from Ajmer bus stand goes to Dujod Gate and ends to existing drain near Bur Tree ○ Rehabilitation of Existing drain from Raiji's Well to the end of drain near forest land. 	<ul style="list-style-type: none"> • Restoration works of existing drains are in progress. Raising of old drain upto 250 m completed and rest under progress • Work of new drain in 90 m length completed rest under progress 	No change expected	<ul style="list-style-type: none"> ○ Effective monitoring and application of EMP 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
Sikar	Waste Water - Design, Construction, Supply, erection testing, commissioning and five years operation & maintenance of Sewage Treatment plant 10 MLD near (UASB)132KVGSS including all civil, electrical, mechanical, pumping and other allied works and Supply, laying, joining, testing, commissioning of pipe lines (RUSDIP/ TR-02/ SKR/ WW/01)	<ul style="list-style-type: none"> o 10 MLD capacity STP (UASB technology) - 1 inlet chamber, 1 no. cross screen channel, 1 no. fine screen channel, 2 nos. grit channel, 1 distribution chamber, 2 nos. reactor, 2 nos. degassing aeration tanks and 2 nos. polishing tanks o Trunk main dia varying from 700mm to 900mm dia – 5.407 km o Collection network dia varying from 200mm to 600mm dia- 73.976 km 	<ul style="list-style-type: none"> • Confirmatory survey of STP and sewer line completed • 380 m outfall pipe procured and laying started 	No change expected	<ul style="list-style-type: none"> o Effective monitoring and application of EMP 	No risk
Chittorgarh	River Bridge - Construction of 2 nos. high level bridge on river Gambhiri & Bedach in Chittorgarh (RUSDIP/TR-02/CHT/BR/01)	<ul style="list-style-type: none"> o Construction of two lane bridges on river Gambhiri and Bedach in Chittorgarh, Rajasthan. o Total no of spans in Gambhiri Bridge is 16 and in Bedach river bridge is 5. o Total length of Bridge over river Gambhiri is 170.0m and Bridge over river Bedach is 151.20 Mtrs. 	<p>Following works are in progress :</p> <ul style="list-style-type: none"> • Earth work Excavation <u>Bedach river Bridge</u> Abutments- 2 Nos and Piers - 4Nos are completed <u>Gambhir river Bridge</u> Piers – 9 Nos are completed rest under progress • PCC for foundation <u>Bedach river Bridge</u> Abutments- 2 Nos and Piers - 4Nos are completed <u>Gambhir river Bridge</u> Piers – 9 Nos are completed 	No change expected	<ul style="list-style-type: none"> o Effective monitoring and application of EMP 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
			<ul style="list-style-type: none"> • Raft Foundation <u>Bedach river Bridge</u> Abutments- 2 Nos and Piers - 4Nos are completed <u>Gambhir river Bridge</u> Piers – 7Nos are completed • RCC M-35 <u>Bedach Bridge</u> Abutment (A1)- 1 No 3rdLift,A2- 1st lift are completed, Pier(P2&P3)- 1st lift,P1- 3rdlift , P6- final lift are completed and rest under progress 			
Karauli	Water Supply - Construction of OHSRs and balancing reservoir including Providing, Laying, Jointing, Testing and Commissioning of DI pipelines in Distribution system and Transmission system; and replacing of existing leaking pipelines; Replacement of Water Meters (RUSDIP/ TR-02/ KRL/WS/01)	<ul style="list-style-type: none"> ○ Gravity main - 18.34 km of gravity main of 150-600 mm dia - <i>from off-take point of Chambal-Nadoti project up to CWR/OHSR at city</i> ○ New pipe line and replacement of old pipe line of 67.6 km of 150-300 mm dia. in different parts of the city ○ CWR sump of 1 lakh lit near Head work at Mandrayel road ○ OHSRs of 4 nos. of capacity at Krishi Upaj Mandi (500KL), Sainath 	<ul style="list-style-type: none"> • 12.78 km DI pipe procured and 8.51 km rising main pipe line laid at Patana colony, Karamchari colony, Chubey colony along with NH 11 B 	No change expected	<ul style="list-style-type: none"> ○ Effective monitoring and application of EMP 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
		(1250KL), RTO Office (1250KL), Bus stand (500KL) <ul style="list-style-type: none"> o 3 nos. Chlorinator- 1 no Chlorinator at Mandrayel road CWR and 2 Chlorinators at furthest OHSRs 				
Nagaur	Water Supply: Construction of OHSRs and CWRs including Providing, Laying, Jointing, Testing and Commissioning of uPVC and DI pipelines in Distribution system and Transmission system; Construction of Pumping stations and ancillary works; Replacement of Water Meters for UWSS in Nagaur town {RUSDIP/TR-02/ NGR/WS/01}	<ul style="list-style-type: none"> o Construction of 8 nos. OHSR at Indira colony, New Ajmeri gate, New Indira colony, Sanjiv colony, Pratap sagar, Balram Das Sastri, Bhagath Sagar and Budali o Providing and laying of 103 Km. pipe line o Construction of 1 no pump house and CWR at Harijan Basti o Replacement of pumping machinery at PHED pump house. 	<ul style="list-style-type: none"> • Confirmatory survey under progress 	No change expected	<ul style="list-style-type: none"> o Effective monitoring and application of EMP 	No risk
Baran	Bridge ROB: Construction of 2 lane ROB at level crossing no. 37 on NH 76 at Baran {RUSDIP/ BRN/BR/02}	<ul style="list-style-type: none"> o Construction of Two Lane ROB ON NH-76 at Railway LC NO-37. o Construction of 17 no Via Duct (10 no. on Baran side and 7 nos. on Kota side) and construction of Reinforced Earth Retaining wall 375 mtrs. 	<ul style="list-style-type: none"> • 2 test pile constructed. • Diversion Road work in progress 	No change expected	<ul style="list-style-type: none"> o Effective monitoring and application of EMP 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
		<ul style="list-style-type: none"> o Construction of five Railway Spans including skew correction span on both side. o Total length of ROB - 826.87m. 				
Sawai Madhopur	Bridge ROB: Construction of Railway over Bridge at Kherda Railway crossing (on NH-116 at level crossing no. T/2-B) at Sawai Madhopur {RUSDIP/TR-02/ SMD/BR/01}	<ul style="list-style-type: none"> o Construction of Two Lane ROB ON NH-116(Tonk – Dausa road) at Railway LC NO-T/2B. o Construction of 16 no Via Duct (11 no. on Sawai Madhopur side and 5 nos. on Tonk side) and construction of Reinforced Earth Retaining wall 505 mtrs. o Construction of one Railway Span of 25m. o Total length of ROB is 850.00Mtrs. 	<ul style="list-style-type: none"> • Test pile constructed • Office & laboratory established • Construction drawing issued • Vertical and lateral load test completed on test pile. • 400 meter drain work completed in both side • 85 meter pile completed 	No change expected	<ul style="list-style-type: none"> o Effective monitoring and application of EMP 	No risk
Churu	Bridge ROB: Construction of 2 lane ROB at level crossing no. 168C, on Churu-Fatehpur (NH-65) {RUSDIP/TR-2/CHU/BR/01}	<ul style="list-style-type: none"> o Construction of Two Lane ROB ON NH-65 at Railway LC NO-168C. o Construction of 7 no Via Duct (1 no. on Sikar side and six nos. on Churu side) and construction of Reinforced Earth Retaining wall 475 mtrs. o Construction of one skew 	<ul style="list-style-type: none"> • Field activity yet to start only arrangement of diversion road under progress • Approval of GAD from railway is awaited 	No change expected	<ul style="list-style-type: none"> o Effective monitoring and application of EMP 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
		<p>correction span of 25m on each side.</p> <ul style="list-style-type: none"> o Construction of three Railway Spans (Skew) of 37.756m each. o Total length of ROB - 882 mtrs. 				
Barmer	Waste Water: Design, Construction, Supply, Erection, Testing, Commissioning and five years Operation & Maintenance of Sewage Treatment plant 10 MLD including all Civil, Electrical, Mechanical, Pumping and other allied works and Supply, Laying, Joining, Testing and Commissioning of Outfall sewer, various Trunk sewers, collecting and lateral sewers along with all necessary manholes, appurtenances etc. at Barmer { RUSDIP/ TR-02/ BMR/ WW/02 }	<ul style="list-style-type: none"> o Construction of STP of 10 MLD (WSP technology) o Providing and laying of 40.35 Km pipe line including Trunk Sewer of 6.94 km 	<ul style="list-style-type: none"> • Confirmatory survey of sewer line was completed and re-confirmatory survey of sewer line is under progress • Site office & Laboratory established. • Sewer pipes procured 200mm dia.400mtr. 450mm dia.37.5mtr. 900mm dia.90mtr. 	No change expected	<ul style="list-style-type: none"> o Effective monitoring and application of EMP 	No risk
Bundi	Water Supply: Construction of OHSRs and CWRs including Providing, Laying,	<ul style="list-style-type: none"> o Construction of 16 tube wells of 200 mm - 300 mm dia o Rising main (length: 26.3 	<ul style="list-style-type: none"> • Confirmatory survey under progress 	No change expected	<ul style="list-style-type: none"> o Effective monitoring and application of EMP 	No risk

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
	Jointing, Testing and Commissioning of uPVC and DI pipelines in Distribution system and Transmission system; Construction of Tubewells; Construction of Pumping stations; Replacement of Water Meters for UWSS in Bundi town. {RUSDIP/ TR-02/ BND/WS/02}	km) of pipe diameter: 200 to 700 mm <ul style="list-style-type: none"> o Provision for 21 km distribution pipe line of 80 to 250 mm dia. o Construction of 800 KL CWR and pump house at Vikash nagar including all mechanical and electrical works. o 6 RCC OHSRs at Mahaveer Nagar (0.6 ML), RIICO (0.6 ML), Amedkar school (0.9 ML), Jail Campus (0.6 ML), Holi ka khoont (0.6 ML), Malviya Nagar (0.6 ML) o 2 GLSRs at Bal Chand Pada (0.55 ML) and Modi Pada (0.3 ML) o Rehabilitation of existing head works and replacement of pumps at Nainwa head work, Mangli head work, Bhata Bilash and Jail headwork including mechanical and electrical works o 4 nos. Chlorinators- Vikash Colony, Jail, Nenua Road and Bhata Vilash 				

Locations	Sub-projects Components (Package No.)	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
Sawai Madhopur	Waste Water: Design, Construction, Supply, erection testing, commissioning and five years operation & maintenance of Sewage Treatment plant 10 MLD near Surwal Village including all civil, electrical, mechanical, pumping and other allied works and Supply, laying, joining, testing and commissioning of outfall sewer, various Trunk sewers and lateral sewers connecting to out fall, along with all necessary manholes, appurtenances, etc. at Sawai Madhopur {RUSDIP/ TR-02/ SMD/WW/02}	<ul style="list-style-type: none"> ○ Construction of STP of 10 MLD (WSP technology) ○ 80.302 km of sewer network consisting of various diameters of pipes ranging from 200 millimeters (mm) to 600 mm ○ 7.818 km of outfall sewer with pipe diameters varying from 800 mm to 1100 mm 	<ul style="list-style-type: none"> • Confirmatory survey completed • Design & drawing of STP under approval • Pipe procurement started. • Jungle clearance for STP under progress 	No change expected	<ul style="list-style-type: none"> ○ Effective monitoring and application of EMP 	No risk
Bharatpur	Drainage: Construction of storm water drainage system at Ramnagar, Domar & Kali Bagichi to Golabag at Bharatpur { RUSDIP/ TR-02/ BPR/DR/01}	<ul style="list-style-type: none"> ○ De-silting of approximately 750 meters of existing masonry drains; ○ Rehabilitation of approximately 3 km of the existing drainage outfall and construction of approximately 950 m of new drainage outfall; and ○ Construction of 8 road culverts 	<ul style="list-style-type: none"> • Confirmatory survey under progress 	No change expected	<ul style="list-style-type: none"> ○ Effective monitoring and application of EMP 	No risk

9. During the quarter from September to December 2009 letter of acceptance has been issued for few sub projects like Nagaur waste water, Barmer ROB, Sawai Madhopur water supply. Scope of the works are reviewed and presented below in **Table 5**.

Table 5: New Sub-projects under award process

Locations	Sub-projects (Package No.)	Components	Listing of works under the package (As per Bid document)	Present work status
TRANCHE 2				
Nagaur	Waste water: Design, Construction, Supply, Erection, Testing, commissioning and five years Operation & Maintenance of 8 MLD Sewage Treatment plant near Balwa road and sewage pumping/ lifting station including all Civil, Electrical, Mechanical, Pumping and other allied works and Supply, Laying, Joining, Testing and Commissioning of Outfall sewer, Trunk sewers and lateral sewers, along with construction of manholes, appurtenances etc. at Nagaur {RUSDIP/TR-02/NGR/WW/01}		<ul style="list-style-type: none"> • 8 MLD STP (WSP technology) • Collection network dia varying from 200mm to 600mm, 14.84 km. including laying of Trunk main sewer dia varying from 900mm to 1200mm, 5.17 km. • Sewage Pumping Station pumping main 	<p>Letter of Acceptance issued to contractor on 18.09.09</p> <p>After signing of agreement work will be started shortly</p>
Barmer	Bridge: Construction of 2 lane ROB at level crossing no. 323 on NH-15 {RUSDIP/TR-2/BMR/BR/01}		<ul style="list-style-type: none"> • Construction of one 33.25m ROB span • Construction of 4x22.5 m viaduct spans at Jaisalmer end and 7x22.5m viaduct span at Barmer end. • Total Length of ROB-730.25 m • Construction of 200m length of embankment of varying height with both sides RE wall at Jaisalmer end and 250m length of embankment of varying height with both sides RE wall at Barmer end • Construction of Service road at both sides of ROB approaches. • Provision of footpath, provision of drain, utility space, crash barrier, Road appurtenances 	<p>Letter of Acceptance issued to contractor on 07.10.09</p> <p>After signing of agreement work will be started shortly</p>

Locations	Sub-projects (Package No.)	Components	Listing of works under the package (As per Bid document)	Present work status
Sawai Madhopur	Water supply: Construction of CWRs & OHSRs including supply, laying and commissioning with testing of DI & uPVC pipelines and construction of pumping stations and replacing of leakaged pipeline etc. for UWSS Sawai Madhopur {RUSDIP/TR-02/SMD/WS/ 02}		<ul style="list-style-type: none"> • Providing and laying of DI rising main pipeline of approx. 27.21 Km length of dia 100 mm to 600 mm. • Providing and laying of DI/uPVC distribution pipe line of approximately 57.23 km length of dia 100 mm to 400 mm. • Construction of CWR 2 nos. of capacity 2500 KL at Bal Mandir and 1000 KL at 72 Steps Higher secondary school in walled city • Construction of 8 nos. OHSRs of total capacity of 5700 KL – at Bal Mandir (500 KL), Commerce College (1250 KL), Harijan basti – Hanuman nagar (350 KL), Hameer Nagar (500 KL), Maharana Pratap Colony (1000 KL), Raigar Basti (350 KL), School 72 Steps (1000 KL), Vigyan Nagar(750 KL) • Installation of 5 nos. Chlorinators at head works • Construction of 3 Pump houses at Chambal headwork, Bal Mandir, and in Walled city (72 steps) including mechanical and electrical works. • Provision of replacement of pump at Man town, Behru Darwaza and provision of pumps in pump house at Commerce College 	<p>Letter of Acceptance issued to contractor on 21.12.09</p> <p>After signing of agreement work will be started shortly</p>

III. ENVIRONMENTAL PROCEDURE REVIEW

A. Environmental Legal Requirements

10. **Annexure 1** lists those Acts; Rules, Policies and Regulations currently in force in India and deal with environmental issues that could apply to infrastructure development. However, because of the relatively minor negative impacts of most of the types of the subproject likely to be developed under RUSDIP, it is expected that most subproject should not fall within the scope of these legal instruments. Subprojects and activities that will need to comply with certain laws are:

- Any components that require the acquisition of forest land;
- Any construction activities located in areas covered by the Arvalli Range Notification in Alwar;
- Water Treatment Plants (WTP) and Sewage Treatment Plants (STP);
- Composting and landfill facilities;
- Common waste management facilities, including composting, landfills, transfer stations;
- Common waste management facilities within 10 km of the boundary of protected areas (such as National Parks, Sanctuaries, Notified areas and Biosphere Reserves);
- Mobile diesel generators

11. The specific requirements to ensure compliance by these components and subprojects are shown in **Table 6**.

Table 6: Action Required Ensuring Subprojects Comply with National Environmental Laws

Component	Applicable Legislation	Compliance	Action Required
1. All components that require acquisition of forest land	Forest (Conservation) Act 1980; Wildlife (protection) Act 1972	Approval from Ministry of Environment and Forests (MoEF)	Identify non- forest land and formulate an afforestation program
2. Water Treatment Plant (WTP) and Sewage Treatment Plant (STP)	Water (Prevention and Control of Pollution) Act 1974	Consent for Establishment (CFE) and Consent for Operation (CFO) from RSPCB	Based on project review and site inspection RSPCB provides CFE before construction, and stipulate the disposal standards to be met during operation. After completion of construction, CFO is issued confirming compliance with the CFE conditions, if any
		Renewal of CFO during operation (STP)	Based on the performance of the STP and its compliance with the disposal standards CFO is renewed every year
3. All composting and landfill facilities	Municipal Solid Wastes (Management and handling) Rules 2000	Authorization of proposed site by RSPCB	Authorization is issued based on land use in and around the site and groundwater condition
	Water (Prevention and Control of Pollution) Act 1974; Air(Prevention and Control of Pollution) Act 1981	CFE and CFO from RSPCB	Same as for STPs (above)
4. Common waste management facilities including composting, landfills and transfer stations	Environment (Protection) Act 1986: Environmental Impact Assessment Notification 2006, amended in 2009 Category B	Requires environmental clearance from State Environment impact Assessment Authority (SEIAA)	Based on preliminary information and site visits, if required, project will be categorized as B1 or B2. B1 projects require EIA study for approval

Component	Applicable Legislation	Compliance	Action Required
5. Common waste management facilities within or 10 km outside the boundary of protected areas such as National Parks, Sanctuaries, Notified Areas and Biosphere Reserve	Environmental Impact Assessment Notification, 2006 Category A	Requires environmental clearance from the federal Ministry of Environment and Forests (MoEF)	Conduct EIA study Category A and B1 projects require public consultation as part of EIA
6. Mobile diesel generators	Air (Prevention and Control of Pollution) Act 1981	CFE and CFO from RSPCB	CFO renewal every year based on performance

B. Compliance with Environmental Regulations

12. **Table 7 and 8** below shows present clearance status for different sub-projects under **Tr- 1** and **Tr-2** respectively. As per the present status consent to establish obtained for all sub-projects. Environmental clearance for construction of landfill at Jaisalmer, Jhalawar and Alwar is still pending.

Table 7: Present Status of Environment and Forest & Other Clearances (upto 31st December 2009) - Project 1

City	Work (Package No.)	Applicable Legislation/ Type of clearance	Clearance given by and date	Subject / Issue	Remarks/ Action needed
Alwar (Tr-1)	Alwar Waste Water (RUSDIP/Tr-01/ALW-WW-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 20 MLD STP from Pollution Control Board Consent to operate will be required before operation	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010/Group I/50 dated 12.05.09 Consent valid upto 31.08.2011		Complied
	Alwar Solid Waste ((RUSDIP/Tr-01/ALW-SW-01))	EIA notification 2006 EC applied on 01.10.08 (for categorisation submitted to RPCB on 04.09.08)		Discussion in SEAC meeting held on 17.11.08 again it is discussed in 3 rd meeting of SEAC on 26.12.08	EIA report under preparation as per clearance requirement
Jaisalmer (Tr-1)	Waste Water (RUSDIP/TR-01/JSL/WW-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 10 MLD STP from Pollution Control Board Consent to	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010/Group II/66 dated 18.05.09 Consent valid upto 30.09.2011		Complied

City	Work (Package No.)	Applicable Legislation/ Type of clearance	Clearance given by and date	Subject / Issue	Remarks/ Action needed
		operate will be required before operation			
	Jaisalmer Solid Waste ((RUSDIP/Tr-01/JSL-/SW-01))	EIA notification 2006 EC applied on 01.10.08 (for categorisation submitted to RPCB on 02.09.08)		Discussion in SEAC meeting held on 17.11.08 again it is discussed in 3 rd meeting of SEAC on 26.12.08	EIA report under preparation as per clearance requirement
Jhalawar-Jhalrapatan (Tr-1)	Jhalwar Solid Waste (RUSDIP/Tr-01/JHL -/SW-01)	EIA notification 2006 EC applied on 13.01.08		Discussion in SEAC meeting held on 26.03.09	EIA report under preparation as per clearance requirement

Table 8: Present Status of Environment and Forest & Other Clearances (upto 31st December)- Project II

City	Work (Package No.)	Applicable Legislation/ Type of clearance	Clearance given by and date	Subject / Issue	Remarks/ Action needed
Sawai Madhopur (Tr-2)	Waste Water (RUSDIP/TR-02/SMD/WW-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 10 MLD STP from Pollution Control Board Consent to operate will be required before operation	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010/Group I/45 dated 30.04.09 Consent valid upto 31.10.2011 Consent to Establish DG set at STP obtained from PCB- Order no. 2009-2010/Group I/57 dated 21.05.09. Consent valid upto 31.10.2010		Complied
Rajsamand (Tr-2)	Water supply (RUSDIP/TR-02/RSM/WS-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 17 MLD WTP from Pollution Control Board Consent to operate will be required before operation	Consent to Establish obtained from Pollution Control Board – Order No. RPCB/ROU/Raj/W-4/6155 dated 27.11.08 received on 02.04.09		Complied

City	Work (Package No.)	Applicable Legislation/ Type of clearance	Clearance given by and date	Subject / Issue	Remarks/ Action needed
Dholpur (Tr-2)	Waste Water (RUSDIP/TR-02/DLP/WW-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 10 MLD STP from Pollution Control Board Consent to operate will be required before operation	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010/Group I/51 dated 12.05.09 Consent valid upto 31.10.2011		Complied
Dholpur (Tr-2)	Water supply (RUSDIP/TR-02/DLP/WS-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 15 MLD WTP from Pollution Control Board Consent to operate will be required before operation	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010 / Alwar 80 1446 to 49 dated 01.06.2009 Consent valid upto 31.05.2012		Complied
Sikar (Tr-2)	Waste Water (RUSDIP/TR-02/SKR/WW-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 10 MLD STP from Pollution Control Board Consent to operate will be required before operation	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010 / Group 3/96 dated 10.08.09 Consent valid upto 30.11.2011		Complied
Bundi (Tr-2)	Waste Water (RUSDIP/TR-02/BND/WW-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 8 MLD STP from Pollution Control Board Consent to operate will be required before operation	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010/Group I/19 dated 23.03.09 Consent valid upto 31.11.2011		Complied
Nagaur (Tr-2)	Waste Water (RUSDIP/TR-02/NGR/WW-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010/Group		Complied

City	Work (Package No.)	Applicable Legislation/ Type of clearance	Clearance given by and date	Subject / Issue	Remarks/ Action needed
		establish of 8 MLD STP from Pollution Control Board Consent to operate will be required before operation	II/67 dated 18.05.09 Consent valid upto 31.12.2011		
Barmer (Tr-2)	Waste Water (RUSDIP/TR-02/BMR/WW-02)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 10 MLD STP from Pollution Control Board Consent to operate will be required before operation	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010/Group II/69 dated 19.05.09 Consent valid upto 31.12.2011		Complied
Rajsamand (Tr-2)	Waste Water (RUSDIP/TR-02/RSM/WW-01)	Water (Prevention and Control of Pollution) Act. 1974/ Consent to establish of 5 MLD STP from Pollution Control Board Consent to operate will be required before operation	Consent to Establish obtained from Pollution Control Board – Order No. 2009-2010/Group II/60 dated 08.05.09 Consent valid upto 31.12.2011		Complied

C. Compliance of Environmental Loan Covenants

13. The status of compliance of ADB's major Environmental Loan Covenants shown below:

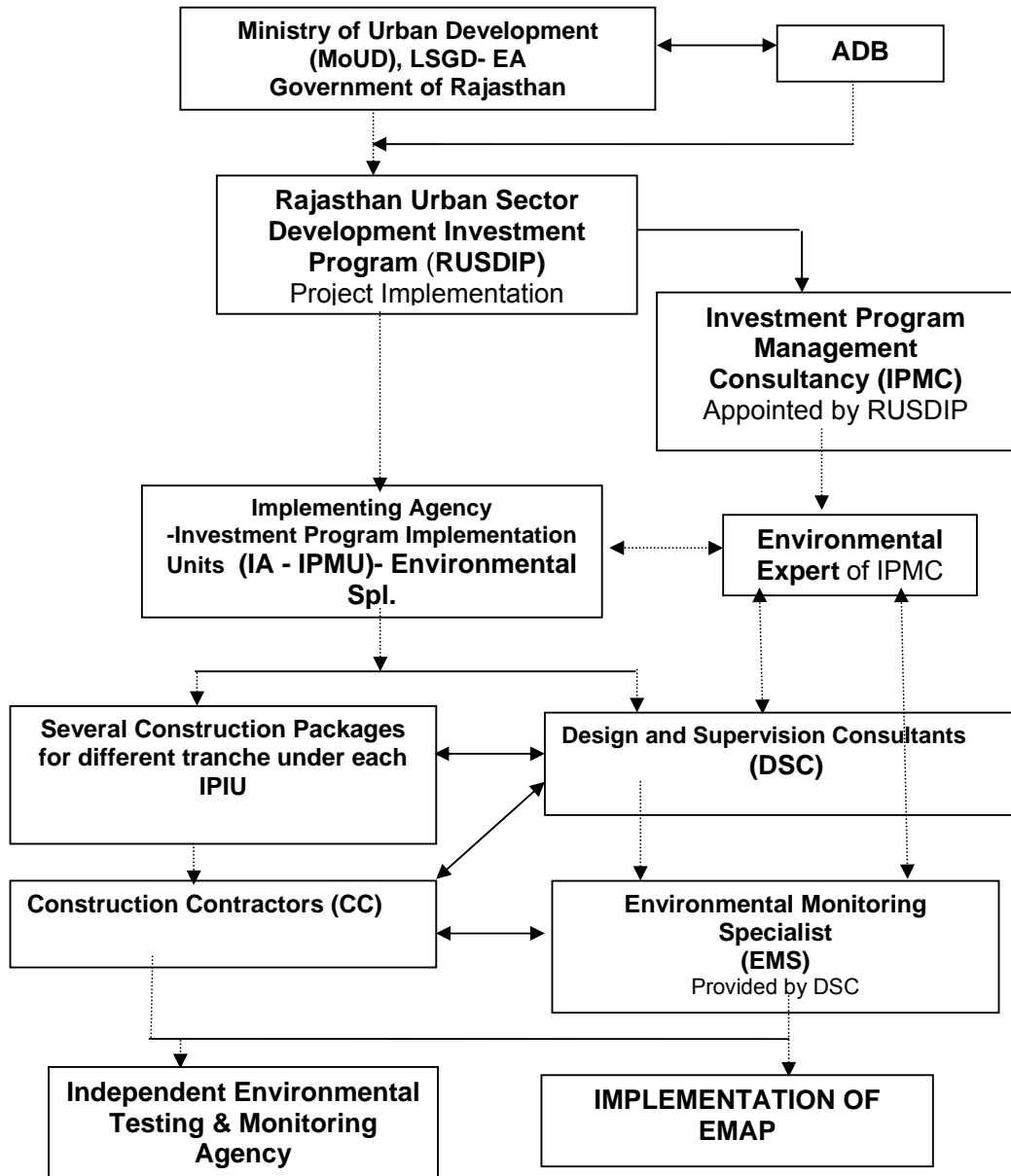
Project Specific Covenants	Status / Issues
Environmental	
1. The EA shall ensure that: (LA Sched 5 Para 13) (a) the project is carried out and all subproject facilities designed, constructed, operated, maintained, and monitored in compliances with the environmental law and regulations of the Borrower, the state, ADB's Environmental Policy (2002), and the EARF;	Under compliance in accordance with ADB Environmental Policy and Environmental Assessment Guidelines
2. (b) Subproject encroaching any National Park or its buffer zone shall not be included in the Project; however, Subproject in or close to the wildlife sanctuary or any other environmentally sensitive area may be allowed subject to the EA obtaining all statutory clearances;	No as such encroachment recorded till date. If it happens in future, environmental clearance will be taken up as per Govt. procedure
3 (c) an IEE as required, including an EMP with budget identifying the cost of its implementation as incorporated in the related bid document if any, when adequate public consultation for each sub-project, in accordance with the EARF shall be submitted to ADB for review and approval before award of related contract. In case of any EIA or SIEE	An IEE have been prepared for each sub-project where EMP, budget for application of EMP and issues of public consultation are enclosed. Budget and EMP components are incorporated in the bid document

Project Specific Covenants	Status / Issues
for sub-project classified as A or B sensitive, this shall be subject to the 120 day public disclosure requirement under ADB's Environmental Policy (2002)	All the reports approved by ADB. At present all the sub-projects are classified as non-sensitive class B (only IEE will be required)
4 (d) all mitigation measures identified in the IEE, SIEE, EIA or SEIA and the related EMP, as applicable, for each sub-project, shall be incorporated in sub-project design, and carried out during construction, and O & M, and disclosed to the stakeholders;	Under compliance: IEE screening of potential environmental impact and mitigation measures applied according to project location, specific sector development and associated design requirements. EMP's prepared and regularly monitored for compliance of stated mitigation measures. During construction process within the city consultation with local communities on environmental issues are considered Last EMP Quarterly Report submitted on September 2009
5 (e) if there are any changes in specific locations or alignments of any sub-project facilities after completion of the process of IEE (or EIA) or due to detailed design or implementation that has an impact on the environmental assessment carried out thus far, then additional environmental assessment shall be carried out in accordance with ADB's Environmental Policy (2002) and the EARF, and prior approval of ADB obtained before further physical implementation of the sub-project;	Such situation is not further arising till date. EMP already revised in case of change of scope/ location for few sub-projects under Tr-1. In case of any major change of locations EMP will be revised for Tr-2 sub-projects. All the reports accepted by ADB For minor change in location of project facilities EMP has been revised for monitoring purpose
6 (f) all environmental clearances required by applicable laws, and regulations at Borrower, State, or local levels shall be obtained in a timely manner, prior to commencement of civil works for the relevant subproject	Under compliance: All necessary clearances presently under pursuance. Specific clearance details are now compiled for appropriate contract packages. Clearance Plan prepared to a scheduled timeframe, which is monitored for submissions to the various agencies in obtaining the necessary clearances.
7 (g) semi-annual progress reports on the implementation of the EMPs, measures under the IEE/EIA, and the environmental monitoring shall be carried out as a part of the project. Implementation for review and disclosure in accordance with ADB's Public Communications Policy (2005)	Quarterly progress report on application of EMP is being prepared regularly Field monitoring continued as per monitoring plan During construction process within the city consultation with local communities on environmental issues has already initiated

D. Environmental Organization and Management

14. Environmental issues of the project coordinated by an Environmental Specialist within the IPMU/ IPMC, who ensures that all subprojects, comply with environmental safeguards. An Environmental Monitoring Specialist (EMS) who is part of the DSC team implement the Environmental Monitoring Plan from each IEE to ensure that mitigation measures are provided and protect the environment as intended. **Figure 1** shows institutional responsibility for implementation of environmental safeguard monitoring at different level.

Figure 1: Institutional Responsibility- Environmental Organisation RUSDIP



15. EMP shows that most of the mitigation activities are the responsibility of the Construction Contractors (CC) employed to build the infrastructure during the construction stage or the O&M Contractors employed to conduct maintenance or repair work when the system is operating. Responsibility for the relevant measures assigned to the Contractors via the contracts through which they are appointed, so they legally required taking the necessary action. There are also some actions that need to be taken by LSGD in their role as project proponent, and some actions related to the design that would be implemented by the DSC.

16. A program of monitoring would be conducted to ensure that all parties take the specified action to provide the required mitigation, to assess whether the action has adequately protected the environment, and to determine whether any additional measures may be necessary. This would be conducted by a qualified Environmental Monitoring

Specialist (EMS) from the DSC. The EMS responsible for all monitoring activities and reporting the results and conclusions to the IPMU, and recommend remedial action if measures are not being provided or are not protecting the environment effectively. The EMS may be assisted by environmental specialist in particular technical fields, and junior or medium-level engineers who can make many of the routine observations on site. Post-construction monitoring will be conducted by the relevant Government Agency (GA) to whom responsibility for the infrastructure will pass once it begins to operate¹.

17. EMP shows that most of the mitigation measures are fairly standard methods of minimizing disturbance from building in urban areas (maintaining access, planning work to avoid sensitive times, finding uses for waste material, etc), and experienced Contractors should be familiar with most of the requirements. Monitoring of such measures normally involves making observations in the course of site visits, although some require more formal checking of records and other aspects. There are also be some surveys of residents, as most of the measures are aimed at preventing impacts on people and the human environment.

IV. IMPLEMENTATION STATUS OF MITIGATION MEASURES

18. At present there are **25 sub-projects (13 in Tr-1 & 12 in Tr-2)** awarded to the contractors. Field activities are started in **16 sub-projects**. EMP has been implemented in all the running projects as per IEE report. The detail mitigation measures against impacts on air, water, soil environment and safety aspects are shown in **Annexure 2**. Overall compliance status of EMP application and actions needed are discussed below and shown in **Table 9** and **10**.

19. It is noted that works just commenced in most of the sub-project locations. For implementation of EMP, arrangement of human safety, procurement of PPE, arrangement of sprinkler system are under process or started. Training has been given to the contractors, DSC's monitoring specialist and IPIU representative on environmental safeguard requirement. Moreover instruction is given to contractors to follow the specified clause of BID document to mitigate environmental and social impacts.

20. **Annexure 3** shows the instruction sheet for the contractor on application of EMP.

21. "Pollution under Control certificate" for the engaged vehicles have been obtained partly for Alwar, Jhalawar, Jhalrapatan and Jaisalmer and rest under procurement.

¹ In the operational period some infrastructure will be the responsibility of the Municipal Boards/Councils, whilst others will be the responsibility of the appropriate branch of the State government (such as PWD, PHED, etc)

Table 9: Compliance Status with Environmental Management and Monitoring Plans as stipulated in the Environmental Documentation – Tranche 1

Sites	Name of Sub Project	EMP being Implemented (Yes / No)	Overall Status of EMP Implementation (Excellent/Satisfactory/Partially Satisfactory/Below Satisfaction/Poor/Very Poor)	Actions Proposed or continued/Additional Corrective Measures Required
Alwar	Water Supply- Replacement of inefficient pumping machinery etc.; providing and installation of chlorination equipments, etc. in Alwar. {RUSDIP/TR-01/ALW-JHL/WS-01 Lot-1 (Alwar)}	Yes	Satisfactory	<ul style="list-style-type: none"> ○ Under completion stage-disposal of all construction waste
Alwar	Water Supply - Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system; Construction and Commissioning of Elevated service reservoirs. {RUSDIP/TR-01/ ALW/WS-02}	Yes	Satisfactory	<ul style="list-style-type: none"> ○ Continue Implementation of EMP through awareness and monitoring ○ Complete utilisation of PPE ○ Proper barricading, use of safety tape
Alwar	Waste water - Providing, Laying, Jointing, Testing and Commissioning part of outfall sewer of 1000 mm dia HDPE pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar. {RUSDIP/ TR-01/ ALW/WW/01-Lot2}	Yes	Satisfactory	<ul style="list-style-type: none"> ○ Continue Implementation of EMP ○ Continue barricading, use of safety tape
Alwar	Waste water - Providing, Laying, Jointing, Testing and Commissioning of outfall/ trunk sewers of 800 to 1200 mm RCC pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar {RUSDIP/ TR-01/ALW/WW/02 (Lot-1)}	Yes	Partial Satisfactory	<ul style="list-style-type: none"> ○ Complete Implementation of EMP through awareness and monitoring ○ Complete utilisation of PPE ○ Earliest restoration of road ○ Supply of PUC certificate etc
Alwar	Bridge/ROB - Construction of Approaches & Viaduct spans of ROB at Itarana Level Crossing no. 117 in Alwar {RUSDIP/ TR-01/ ALW/BR/01}	Yes	Partial Satisfactory	<ul style="list-style-type: none"> ○ Complete Implementation of EMP through awareness and monitoring ○ Complete utilisation of PPE ○ Collection of all PUC certificate ○ Arrangement of safety at site

Sites	Name of Sub Project	EMP being Implemented (Yes / No)	Overall Status of EMP Implementation (Excellent/Satisfactory/Partially Satisfactory/Below Satisfaction/Poor/Very Poor)	Actions Proposed or continued/Additional Corrective Measures Required
Jaisalmer	Water Supply- Design, Supply, Construction, installation and Commissioning of Raw Water pumping Station at Mohangarh, Jaisalmer and providing, laying, jointing and commissioning of 600 mm dia pipeline approx. 57 Km from Mohangarh to WTP Gajroopsar, Jaisalmer and O & M {RUSDIP/TR-01/ JSL/WS-01}	Yes	Partial Satisfactory	<ul style="list-style-type: none"> o Complete Implementation of EMP through awareness and monitoring o Maintaining the safety arrangement o Complete utilisation of PPE o Collection of PUC for vehicles and equipment
Jaisalmer	Water Supply - Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and rising main pipeline; Construction and Commissioning of Elevated service reservoirs and providing pumping system and ancillary works {RUSDIP/TR-01/ JSL/WS-02}	Yes	Satisfactory	<ul style="list-style-type: none"> o Continue Implementation of EMP through awareness and monitoring o Continue utilisation of PPE
Jaisalmer	Waste water - Sewerage and Waste stabilization Ponds in Phase-I in Jaisalmer {RUSDIP/TR-01/ JSL/WW-01}	Yes	Satisfactory	<ul style="list-style-type: none"> o Maintaining the safety arrangement o Continue Implementation of EMP through awareness and monitoring
Jaisalmer	Drainage - Construction of new drains and minor bridges in Jaisalmer {RUSDIP/TR-01/ JSL/DR-01}	Yes	Satisfactory	<ul style="list-style-type: none"> o Maintaining the safety arrangement o Continue Implementation of EMP through awareness and monitoring
Jaisalmer	Solid Waste- Development of sanitary landfill sites in Jaisalmer {RUSDIP/TR-01/ JSL/DR-01}	Yes	Satisfactory	<ul style="list-style-type: none"> o Complete Implementation of EMP through awareness and monitoring o Planning for re use of overburden earth / rock materials
Jhalawar-Jhalrapatan	Water Supply - Improvement of intake structures; Replacement of pumping machinery; rehabilitation of old WTP's; Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the distribution system and rising mains; Construction and Commissioning of SRs {RUSDIP/TR-01/ JHL/WS-02}	Yes	Satisfactory	<ul style="list-style-type: none"> o Continue Implementation of EMP through awareness and monitoring o Continue utilisation of PPE and use of caution tape, barricade at working location o Chemical testing of old filter media of WTP before disposal

Table 10: Compliance Status with Environmental Management and Monitoring Plans as stipulated in the Environmental Documentation – Tranche 2

Sites	Name of Sub Project	EMP being Implemented (Yes / No)	Overall Status of EMP Implementation (Excellent/Satisfactory/Partially Satisfactory/Below Satisfaction/Poor/Very Poor)	Actions Proposed/Additional Corrective Measures Required
Sikar	Construction of storm water drainage in Sikar {RUSDIP/TR-2/SKR/DR/01}	Yes	Satisfactory	<ul style="list-style-type: none"> o Continue implementation of EMP o Continue proper utilisation of PPE o Proper disposal of waste
Sikar	Construction of 10 MLD STP, Sewer Line and Commissioning of Outfall Sewer. {RUSDIP/TR-02/SKR/WW-01}	Yes	Partial Satisfactory	<ul style="list-style-type: none"> o Continue implementation of EMP o Continue proper utilisation of PPE o Collection of PUC certificate o Barricading at project site
Chittorgarh	Construction of 2 nos. high level bridge on river Gambhiri & Bedach in Chittorgarh {RUSDIP/TR-02/CHT/BR/01}	Yes	Satisfactory	<ul style="list-style-type: none"> o Continue Implementation of EMP through awareness and monitoring o Ensure proper utilisation of PPE
Karauli	Construction of OHSRs and balancing reservoir including Providing, Laying, Jointing, Testing and Commissioning of DI pipelines in Distribution system and Transmission system; and replacing of existing leaking pipelines; Replacement of Water Meters for UWSS in Karauli town {RUSDIP/ TR-02/ KRL/WS/01}	Yes	Partially Satisfactory	<ul style="list-style-type: none"> o Complete Implementation of EMP through awareness and monitoring o Ensure proper utilisation of PPE o Collection of PUC certificate
Sawai Madhopur	Construction of Railway over Bridge at Kherda Railway crossing (on NH-116 at level crossing no. T/2-B) at Sawai Madhopur {RUSDIP/TR-02/SMD/BR/01}	Yes	Satisfactory	<ul style="list-style-type: none"> o Continue Implementation of EMP through awareness and monitoring

V. ENVIRONMENTAL MONITORING AND EVALUATION

22. For effective monitoring, selected environmental parameters have been identified as indicators which may be qualitatively and quantitatively measured and compared over a period of time in order to assess/ensure the compliance of EMP. The environmental performance indicators are physical, biological and social characteristics identified as most important in affecting the environment at critical locations all along the sub-project corridors. The parameters identified as performance indicators are:

- o Air, noise and water quality
- o Compliance to EMP
- o Compliance to local/state/national environmental regulations

23. As per the requirement of environment compliance it is necessary to test old filter media of WTP at Jhalawar/Jhalapatan before disposal. At present concerned work (replacement of filter media) is not started. Testing will be carried out before disposal of filter media at the MoEF/NABL approved laboratory.

24. Instruction is given to the contractors to do chemical testing for following parameters.

Parameter	
pH	Copper, mg/l
Total salt content (%)	Zinc, mg/l
Arsenic, mg/l	Nickel, mg/l
Mercury, mg/l	Cyanide, mg/l
Lead mg/l	Chloride, mg/l
Cadmium, mg/l	Fluoride, mg/l
Total Chromium, mg/l	Phenolic Compounds, mg/l
Hexavalent Chromium, mg/l	

25. Handling and disposal plan for water treatment plant sludge of Jhalawar and STP sludge of Jaisalmer have been developed as per Detailed Project Report and presented in June 2009 Quarterly report. Now sludge handling plan need to be developed for Alwar (Tr-1), Sikar, Barmer and Sawai Madhopur STP (Tr-2) since project work has been commenced in all the 4 locations.

26. After starting of construction work for STP air pollutants should be measure at core and buffer zone of the proposed STP site. If any water body exist near the STP physico-chemical properties of the water should be measure as part of base line environment. At present STP work is just started at Alwar, Sikar and already started for Jaisalmer, hence monitoring is required at present with the progress of the project work. Environment monitoring parameters are shown in **Annexure 4**.

27. Also during construction of landfill site monitoring in respect to air, noise and water quality are required. Parameters are given in **Annexure 4**.

28. At bridge construction site monitoring of ambient air quality (at Chittorgarh, Sawai Madhopur, Churu, and Baran) and water quality (in case of river bridge at Chittorgarh) are also necessary

29. At drainage project sites of Jaisalmer soil erosion is not occurred. Similar observation is recorded at different excavated area.

VI. MAJOR PROJECT ISSUES AND PROBLEMS

30. Field activity of the sub-projects under Tranche-1 and Tranche -2 is under progress. Till date no as such major issues and problems arise at the project locations.

VII. CONSULTATIONS AND RECOMMENDATIONS

31. For protection of local environment during construction phase application of mitigation measures started as per specified EMP. Pubic consultation during construction/implementation phase have been carried out for Jaisalmer, Alwar, Jhalawar, Sawai Madhopur and Chittorgarh. The issues and public opinion are shown in **Annexure 5**. The general recommendations as per present observations are given in Table below.

Table 11: Recommendations and Suggestions

S. No.	Issues	Recommendations & Suggestions
1	Execution of works non-compliant to EMP	Effective implementation of Environmental Management Plan has to be ensured by Contractors where the present status is partial satisfactory Environmental Safety Officers to be mobilized by Contractors for all sub-projects to carry out the environmental monitoring, reporting and other related jobs which need an expert input.
2	Procedural delays in obtaining clearances	Applications route through different offices within the same department and despite rigorous follow up more than 4-5 months are taken by concerned authorities to grant permission/clearance. Undue time for clearance may lead to the extension of works and levy heavy idling charges. To expedite the clearance process a time frame has to be fixed with respective departments and is being followed at all levels.
3	Debris disposal	In some cases the proper debris disposal need to be carried out.

32. The action plan considered for satisfactory environmental compliance as per the present sub-project activities are given in **Table 12**.

Table 12: Action plan consider for Satisfactory Environmental Compliance

Action	To be taken by	Time frame
Instruction to contractors and monitoring for <ul style="list-style-type: none"> o Proper disposal of debris and quick disposal of excavated surplus earth material o Complete use of PPE o Restoration of road/lane after pipe laying – at earliest o Camp site management o Water sprinkling at dry period o Collection of PUC certificate o Use of safety tape/ barricade/ caution board 	IPIU, DSC, Contractors	Continuous
Testing of old filter media before disposal-applicable for rehabilitation of WTP sub-projects	Contractor, IPIU, DSC	After execution of work and before disposal of filter media
Generation of base line data on air quality, noise and water (surface & ground) at STP site, bridge construction site and landfill site	Contractor, IPIU	Within next quarter (as per progress of the work)
Public consultation during construction	IPIU, DSC, Capacity building team	Started already, sample attached as Annexure 5
Follow up action for environmental clearances/ consent	IPMU, IPIU	At earliest

ANNEXURE 1

The Government of India has formulated various policy guidelines; acts and regulations aimed at the sustenance of environment in general, which are briefly summarized and applicable acts with the projects, are described in the following sub-sections.

Environmental Legislation and Pollution Control Acts

Sl. No.	Sources	Legislation
1	Water Pollution	The Water (Prevention and Control of Pollution) Act, 1974, as amended in 1988
2	Air Pollution	The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987
3	Noise Pollution	The Noise Pollution (Regulation and Control) Rules, 2000
4	Environment	The Environment (Protection) Act, 1986
5	Public Liability	The Public Liability Insurance Act, 1991 The Public Liability Insurance Rules, 1991
6	Hazardous Waste	<ul style="list-style-type: none"> ➤ Hazardous Waste (Management and Handling) Rules, 1989 ➤ Batteries (Management and Handling) Rules, 2001 ➤ Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 ➤ Emergency Planning Preparedness and Response for Chemical Disasters Rules, 1995 ➤ Manufacturing, Use, Import, Export and Storage of Hazardous Microorganisms, Genetically Modified Engineered Organisms or Cell Rules, 1993 ➤ Hazardous Microorganisms and Genetically Modified Organisms (Manufacture, Use Import Export and Storage) Rules, 1999 ➤ Bio- Medical Waste (Management and Handling) Rules, 2000
7	Municipal Solid Waste	Municipal Solid Waste (Management and Handling) Rules, 2000 Recycled Plastics Manufacturing and Usage Rules, 1999
8	EIA Notification	The Ministry of Environment and Forests has revised the EIA notification, 1994, and issues the revised EIA notification on 14th September 2006
9	Use and Management of Explosive	The Explosives Act, 1884 and The Explosives Rules, 1983

○ **The Environment Protection act, 1986 and the EIA Notification, 1994**

The Environmental (Protection) Act, 1986 is the umbrella legislation providing for the protection of environment in the country. This Act provided for the Environment (Protection) Rules, which have been formulated under the act "The Environmental Impact Assessment Notification, 1994 and the Amendments / Revised EIA notification on 14th September 2006".and Year 2009.

○ **The Forest (Conservation) Act, 1980**

The Forest (Conservation) Act, 1980 pertains to the cases of diversion of forest area and felling of roadside plantation. Depending on the size of the tract to be cleared, clearances are applied for at the following levels in the governments:

- If the area of forests to be cleared or diverted exceeds 20 ha (or, 10ha in hilly area), the prior permission of the Central Government is required;

- If the area of forest to be cleared or diverted is between 5 to 20 ha, the Regional Office of Chief Conservator of Forests is empowered to approve;
 - If the area of forest to be cleared or diverted is below or equal to 5 ha, the State Government can give permission; and
 - If the area to be clear-felled has a forest density of more than 40%, permission to undertake any work is needed from the Central Government, irrespective of the area to be cleared.
- **The Wildlife (Protection) Act, 1972**

The Wildlife Protection Act has allowed the government to establish a number of National Parks and Sanctuaries over the past 25 years, to protect and conserve the flora and fauna of the state.

- **The Water and Air (Prevention and Control of Pollution) Acts 1974**

The water (Prevention and Control of Pollution) Act, 1974 resulted in the establishment of the Central and State level Pollution Control Boards whose responsibilities include managing water quality and effluent standards, as well as monitoring water quality, prosecuting offenders and issuing licenses for construction and operation of certain facilities. The SPCB is also empowered to set air quality standards and monitor and prosecute offenders under the air (Prevention and Control of Pollution) Act, 1981.

ANNEXURE - 2

Application of EMP (October to December 2009)

Sr. No.	Project Town	Packages
TR- 1		
1	Jhalwar- Jhaleapatan:	Water Supply- Improvement of intake structures; Replacement of pumping machinery; rehabilitation of old WTP's; Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the distribution system and rising mains; Construction and Commissioning of SRs { RUSDIP/TR-01/ JHL/WS-02 }
2	Jaisalmer	Drainage - Construction of new drains and minor bridges in Jaisalmer{ RUSDIP/TR-01/ JSL/DR-01 }
3		Water Supply- Design, Supply, Construction, installation and Commissioning of Raw Water pumping Station at Mohangarh, Jaisalmer and providing, laying, jointing and commissioning of 600 mm dia pipeline approx. 57 Km from Mohangarh to WTP Gajroopar, Jaisalmer and O & M { RUSDIP/TR-01/ JSL/WS-01 }
4		Water Supply - Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and rising main pipeline; Construction and Commissioning of Elevated service reservoirs and providing pumping system and ancillary works { RUSDIP/TR-01/ JSL/WS-02 }
5		Waste water - Sewerage and Waste stabilization Ponds in Phase-I in Jaisalmer { RUSDIP/TR-01/ JSL/WW-01 }
6		Solid Waste- Development of sanitary landfill sites in Jaisalmer { RUSDIP/TR-01/ JSL/SW-07 }
7	Alwar	Water Supply- Replacement of in-efficient pumping machinery of pump houses and tube wells including electrical equipments; replacement of riser pipes and submersible cables in tube wells; providing and installation of chlorination equipments, etc. in Alwar. { RUSDIP/TR-01/ALW-JHL/WS-01 Lot-1 }
8		Water Supply- Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and replacement of Leaking pipelines and rising main pipelines; Construction and Commissioning of Elevated Service Reservoirs. Package No: RUSDIP/TR-01/ ALW/WS-02
9		Bridge/ROB - Construction of Approaches & Viaduct spans of ROB at Itarana Level Crossing no. 117 in Alwar { RUSDIP/ TR-01/ ALW/BR/01 }
10		Waste water - Providing, Laying, Jointing, Testing and Commissioning part of outfall sewer of 1000 mm dia HDPE pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar. { RUSDIP/ TR-01/ ALW/WW/01- Lot2 }
11		Waste water - Providing, Laying, Jointing, Testing and Commissioning of outfall/ trunk sewers of 800 to 1200 mm RCC pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar { RUSDIP/ TR-01/ALW/WW/02 (Lot-1) }
TR-2		
12	Sikar	Drainage: Construction of storm water drainage in Sikar { RUSDIP/TR-2/SKR/DR/01 }
13	Sikar	Waste water: Design, Construction, Supply, erection testing, commissioning and five years operation & maintenance of Sewage Treatment plant 10 MLD near 132KVGSS including all civil, electrical, mechanical, pumping and other allied works and Supply, laying,

Sr. No.	Project Town	Packages
		joining, testing and commissioning of outfall sewer, various Trunk sewers, collecting and lateral sewers connecting to out fall sewer, along with all necessary manholes, appurtenances etc. at Sikar {RUSDIP/ TR-02/ SKR/ WW/01}
14	Chittorgarh	Bridge: Construction of 2 nos. high level bridge on river Gambhiri & Bedach in Chittorgarh {RUSDIP/TR-02/CHT/BR/01}
15	Karauli	Water Supply: Construction of OHSRs and balancing reservoir including Providing, Laying, Jointing, Testing and Commissioning of DI pipelines in Distribution system and Transmission system; and replacing of existing leaking pipelines; Replacement of Water Meters for UWSS in Karauli town {RUSDIP/ TR-02/ KRL/WS/01}
16	Sawai Madhopur	ROB: Construction of Railway over Bridge at Kherda Railway crossing (on NH-116 at level crossing no. T/2-B) at Sawai Madhopur {RUSDIP/TR-02/ SMD/BR/01}

JHALAWAR & JHALRAPATAN

Jhalawar and Jhalrapatan Water supply

Project : Improvement of Intake structures; replacement of pumping machinery; rehabilitation of old WTP's; Providing, Laying, Jointing, Testing & commissioning of water pipeline for the distribution system and rising mains; Construction and Commissioning of Elevated service reservoirs and Construction of new laboratory etc. in Jhalawar & Jhalrapatan (**Pacakage – RUSDIP/ Tr -01 / JHL/WS – 02**)

Progress: As on 31.12.2009 – Casting of top dome completed for Housing Board ESR, Casting of fourth lift of vertical wall completed for Dhanwara ESR, Shuttering and reinforcement for top ring beam, conical wall is under progress for Radi – ke – Balaji ESR, Shuttering and reinforcement for top ring beam, conical wall is under progress for Balaji – ki- Chhatri ESR, PCC for Raft completed at Police Station/PHED ESR site and excavation work completed at Subash Nagar ESR & STC Ground ESR.

Works for superstructure up to roof level is completed at Lab building, Laying of rail completed at J.Patan intake site (Bhanswara) and one side rail, one side MS Pipe, CC road of 184 mts in length was completed at Jhalawar intake site (Pipaji ki Deh) and remaining works will be started after decrease in level of water level of river.

(Physical progress: 35% as on 31.12.09)

S. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	
1	Site preparation work completed by IPIU including necessary clearance	YES		Only rehabilitation of existing WTP is proposed and there is no clearances are required from Pollution Control Board. In most of the cases land made available by IPIU.
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	Most of the workforces are being hired locally. Presently the workers come in morning and leaves in the evening. With the progress of work and as per requirement temporary camps with adequate facilities will be set up.
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		Presently the excavated materials are dumped near the site premises with access spaces provided between the mounds of soil and will be utilized beneficially for backfilling.
4	Water sprinkling at construction site for arresting dust		NA	Sprinkling of water not done at present since not required as per nature of work. Also necessary instruction given to the contractor for arrangement of sprinkler at working site.
5	Materials carrying vehicle are covered.	YES		During the haulage of dry soil & cement bags the vehicles are covered to avoid spillage and dust emissions to the environment. Presently the vehicles carrying stones are not covered and also it is not a source of emission.
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification	YES		Complied for most of the vehicles and equipments
7	At sensitive locations enclosures provided around generator set and concrete		NR	The existing constructional activities being carried out mostly at available govt. lands. Also instructions given to the contractor to provide

S. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
	mixture or other noise producing machinery			necessary precautions to curtail noise pollution.
8	Regular maintenance of noise producing equipment done	YES		Done as per requirement. Complied.
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA	Not applicable at present due to nature of work
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	Removal of trees is not anticipated presently. Also the contractor is instructed to avoid removal of trees during pipe laying works.
11	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable at present due to nature of work
12	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves, safety tape, nose musk and earplugs at work place	YES		Presently the workers at construction sites are wearing helmets and the labors working at heights wearing safety belts.
13	Provide Health and Safety training to all personnel and implement H & S plan	YES		The contractor was instructed periodically to ensure the health and safety of the workers at the constructional site and to abide the H&S norms strictly.
14	Plan truck routes to avoid Jhalawar Town, narrow or congested roads, important or fragile buildings, religious and tourist sites		NR	Trucks involved in the haulage of constructional materials and allied activities are less. This may not impose any additional load in the existing traffic volume of the town. Also this will be considered in future at the time of works in narrow / congested roads. Not required at present
15	Plan transport of waste to avoid peak traffic and tourist season		NR	Presently there is no major generation of waste materials at the constructional sites. The excavated materials will be utilized beneficially for backfilling. Hence there is no peak traffic during tourist season is anticipated.
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site		NR	Works are being carried out without causing any congestion to the existing traffic condition. Also traffic diversions will be provided at necessary juncture.
17	Increase workforce in inhabited areas to finish work quickly		NR	Presently the major works are at government land premises and increasing of work force will be considered when necessary
18	Inform businesspeople and residents of work site in advance		NR	Presently the major works are at government land premises and information will be pass to business people/ residents as per necessity
19	Consult town authority and avoid existing infrastructure		NR	Consulted authorities concerned. Presently the major works are at government land premises
20	Consideration of public safety - as per prescribed mitigation measures	YES		Barricading and use of safety tape is reasonably done. Training has been given to contractor for implementation of public safety arrangement at work sites. Also the contractor was instructed periodically to ensure the health and safety of the public and also the workers at the constructional site and to abide the H&S norms strictly.
21	Provide bridges/ wooden		NR	No major interference caused to the existing traffic

S. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
	platform to allow people & vehicles to cross trenches			conditions presently and may be some temporary interference anticipated during the pipe lying works, which is inevitable and being mitigated by providing alternative arrangement.
22	Locate water and sewer pipes on opposite sides of roads	YES		The laying of water supply pipelines and sewerage lines are planned at opposite sides of the road.
23	Integrate subprojects to conduct trenching at same time	YES		Integrated approach with the consultation of the local authorities is being adopted for trenching related works.
24	Plan work with town authorities – work when traffic is light	YES		Works will be carried out without causing any congestion to the existing traffic condition.
25	Request archaeological authorities to assess potential of all sites		NR	Not Required at present
26	Select alternatives if sites have medium or high potential risk		NR	Not Required
27	Include state and town historical authorities as stakeholders		NR	Not Required
28	Develop and apply archaeological protocol to protect chance finds		NR	Not Required
29	Avoid using pneumatic drills near buildings at risk from vibration		NR	There are no pneumatic drills proposed.
30	Employ at least 50% of workforce from communities near sites	YES		Most of the workforce is hired locally.
31	Continuous monitoring on implementation of mitigation measures	YES		Continuous monitoring is being carried out on implementation of Environmental safeguards /Health & Safety norms at the work sites. Also the preparation and submission of Monthly/Quarterly Environmental Monitoring Report is in practice.

NA- Not applicable, NR- Not required

JAISALMER

Jaisalmer Drainage

Project : Construction of new drains and minor bridges in Jaisalmer
Package No.: RUSDIP/TR-01/ JSL/DR-01
Progress: Construction work for Approach for Culvert is going on (**Physical progress - 98% as on 31.12.2009**)

Sr. No.	Environmental components related to project activities	Compliance		Explanation * (in case of done or not done- justification necessary)
		YES	NO	
PRECONSTRUCTION STAGE				
1	Site preparation work completed by IPIU including necessary clearance	YES		Written permission is not obtained only verbal permission is obtained. Work is completed for Drain no.:3
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	Mostly Local labors are engaged. so Labor camps are not required
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		Is disposed at low laying area as decided by ULB (open dumping site).
4	Felling of tree done (if necessary) with precaution as mentioned in mitigation measures	YES		Only few Babul trees and scrubs are removed under the package. Felling of big trees not required till date
5	Water sprinkling at construction site for arresting dust	YES		Water Sprinkling on regular basis is used to control the dust problem
6	Materials carrying vehicle are covered	YES		Cement carrying trucks are fully covered. Partly complied
7	Use of PPE at working site	YES		Use of PPE like helmet, gumboot should be used. Partially complied
8	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NA	Generators not used in this package Use of concrete machine started. Since present location away from the city (habitation area) enclosures not required.
9	Regular maintenance of noise producing equipment done		NA	Not applicable presently
10	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification	YES		PUC certificate are obtained for vehicles and equipments
11	Suitable short term traffic diversion and implementation of traffic management plan at construction site done	YES		Diversion routes are provided to avoid the vehicle congestion.
12	Chances of water bodies pollution from construction		NR	No such condition exist at site
13	Drainage crossing National Highways and railways - done without any disturbance through construction of culvert etc.		NR	Not required
14	Disposal of construction debris if any as per mitigation measures done		NA	No debris produced at site. The overburdens and excavated earths are being utilized for backfilling and leveling of undulated grounds.
15	Arrangement for drainage of waste		NR	Not generated at present

Sr. No.	Environmental components related to project activities	Compliance		Explanation * (in case of done or not done- justification necessary)
		YES	NO	
	water and arresting solid waste from waste water generated at construction sites			
16	Consideration of public safety –use of safety tape, barricade, caution board or as per prescribed mitigation measures	YES		Caution signboards, barricading, delineators, safety tape etc. deployed at site as per requirements
17	Adequate provision for disposal of drainage silt		NA	In the package no de-siltation of existing drain considered The Scope of the sub-project is construction of new storm water drain only
18	Continuous monitoring on implementation of mitigation measures	YES		Continuous Monitoring of implementation of safeguard measures ensured

NA- Not applicable, NR- Not required

Jaisalmer Water Supply

<p>Project: Design, Supply, Construction, Installation, and Commission of Raw Water Pumping Station at Mohangarh, Jaisalmer and providing laying jointing and commissioning of 600 mm DI Pipe Line of about 57.1 km from Mohangarh to WTP Gajroop Sagar, Jaisalmer and of complete system for 3 years.</p> <p>Package No: RUSDIP/TR-01/JSL/WS-01</p> <p>Progress: Pipe laying work just started (Physical progress – 1.5 % as on 31.12.09)</p>
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Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	
1	Site preparation work completed by IPIU including necessary clearance	YES		No clearances are required from Pollution Control Board for pipe laying land is made available by IPIU.
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	Not required at present
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		Overburden and excavated materials from construction sites are being utilized in backfilling of trenches and leveling of low lying area as per direction of ULB
4	Water sprinkling at construction site for arresting dust	YES		Sprinkling of water is being carried out as per requirement at site. Partially complied
5	Materials carrying vehicle are covered		NR	At present material carrying activities not started, because only laying of pipe is in progress
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification		NO	PUC certificate for equipments & Machinery is pending till date.
7	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NR	Concerned work not yet started. Will be considered at the time of specific work

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
8	Regular maintenance of noise producing equipment done		NR	Not required at present
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NR	At present this is not required.
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	There is no tree felling necessary till date
11	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable at present due to nature of work
12	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves, safety tape, nose musk and earplugs at work place	YES		Supply of complete set of PPE to labourers is ensured by the contractor.
13	Provide Health and Safety training to all personnel and implement H & S plan	YES		Training for health and safety measures have been given to contractor. Regular awareness is necessary.
14	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites	YES		The contractor has provided diversion routes to avoid such problems
15	Plan transport of waste to avoid peak traffic and tourist season	YES		The contractor has provided all necessary preventive measures to avoid this problem
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site	YES		The contractor has provided proper caution boards, sign boards and safety tapes. Traffic diversions are provided at necessary points and as per requirement
17	Consideration of public safety – as per prescribed mitigation measures	YES		Barricading, safety tapes and delineators have been adequately provided at work fronts as public safety measures. Training has been given to contractor for implementation of public safety arrangement at work sites
18	Employ at least 50% of workforce from communities near sites	YES		Local labourers have been mainly engaged for construction works.
19	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring of implementation of mitigation measures have been ensured

NA- Not applicable, NR- Not required

Jaisalmer Water Supply

Project: Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and rising main pipelines; Construction and Commissioning of Elevated Service Reservoirs and providing pumping system and ancillary works in Jaisalmer

Package No: RUSDIP/TR-01/ JSL/WS-02

Progress: Laying of uPVC pipe and construction of ESR at Gafur Bhata in progress **(Physical progress – 24% as on 31.12.09)**

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	
1	Site preparation work completed by IPIU including necessary clearance	YES		No clearances are required from Pollution Control Board for pipe laying land is made available by IPIU. Land allotment for all 3 OHSR is obtained.
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement	YES		One small labor Room is there near proposed location of ESR in "GAFFUR BATAA".
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		Overburden and excavated materials from construction sites are being utilized in backfilling of trenches and leveling of low lying area as per direction of ULB
4	Water sprinkling at construction site for arresting dust	YES		Sprinkling of water is being carried out as per requirement at site. Partially complied
5	Materials carrying vehicle are covered		NR	At present material carrying activities not started, because only laying of pipe is in progress
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification	YES		PUC certificate has been obtained for vehicles however the PUC certificate for equipments is pending till date. Partly complied
7	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NR	Will be considered at the time of specific work
8	Regular maintenance of noise producing equipment done		NR	Not required at present
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NR	At present this is not required.
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	There is no tree felling necessary till date
11	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable at present due to nature of work
12	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves,	YES		Supply of complete set of PPE to labourers has been done. They are using PPE partly Partly complied

Sr. No.	Environmental components related to project activities	Compliance	Explanation (in case of done or not done justification necessary)
	safety tape, nose mask and earplugs at work place		
13	Provide Health and Safety training to all personnel and implement H & S plan	YES	Training for health and safety measures have been given to contractor. Regular awareness is necessary. The contractor has nominated one representative for H & S (safety of workers/public) to abide the H & S norms strictly.
14	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites	YES	The contractor has provided diversion routes to avoid such problems
15	Plan transport of waste to avoid peak traffic and tourist season	YES	The contractor has provided all necessary preventive measures to avoid this problem
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site	YES	The contractor has provided proper caution boards, sign boards and safety tapes. Traffic diversions are provided at necessary points and as per requirement
17	Consideration of public safety – as per prescribed mitigation measures	YES	Barricading, safety tapes and delineators have been adequately provided at work fronts as public safety measures. Training has been given to contractor for implementation of public safety arrangement at work sites and contractor has nominated a person as Environment & Safety representative
18	Employ at least 50% of workforce from communities near sites	YES	Local labourers have been mainly engaged for construction works.
19	Continuous monitoring on implementation of mitigation measures	YES	Regular monitoring of implementation of mitigation measures have been ensured

NA- Not applicable, NR- Not required

Jaisalmer Waste Water

Project: Construction of Sewerage and waste stabilization pond Phase – In Jaisalmer Package No: RUSDIP/TR-01/ JSL/WW-01 Progress: Excavation work in progress for Anaerobic pond & Facultative Pond, laying of laterals and work for Man Hole is in progress (Physical progress – 18 % as on 31.12.09)
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Sr. No.	Environmental components related to project activities	Compliance	Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE			
		YES	NO
1	Site preparation work completed by IPIU including necessary clearance	YES	Consent for STP is obtained from State Pollution Control Board
CONSTRUCTION STAGE			
2	Establishment of temporary camps with sanitary and solid waste management arrangement	YES	Labour camps are made with drinking water facilities (bore well), separate toilets for ladies and gents. But lighting facilities and water supply in Toilets and Bathrooms are required to be ensured. Partially complied.

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the over burdens and excavated materials on nearby area along the trenches and most of these materials are being used for refilling. The unusable extra excavated materials and over burdens are being disposed at low laying area as per direction of ULB
4	Trenches have filled up and surface protection done, pavement surface restored	YES		Trenches have been filled up Pavement restoration work is not started. Partially complied
5	Water sprinkling at construction site for arresting dust	YES		Sprinkling of water is not done regularly at construction site for arresting fugitive dust. Partially complied
6	Materials carrying vehicle are covered		NR	At present material carrying activities not started in full. Only pipes are transported at working site.
7	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification	YES		PUC certificate are collected for vehicles and Instruction are given to the contractor to collect PUC certificate for equipments also. Partly complied
8	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NR	Concerned work not yet started. Will be considered at the time of specific work
9	Regular maintenance of noise producing equipment done		NR	Not required at present
10	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA	Not applicable at present due to nature of work
11	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	There is no tree felling necessary till date
12	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable at present due to nature of work
13	Laying of sewer pipeline crossing National Highways and railways - done without any disturbance through trench-less construction method		NR	Not applicable at present due to nature of work
14	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves, safety tape, nose musk and earplugs at work place	YES		Labourers are using all PPE.
15	Provide Health and Safety training to all personnel and implement H & S plan	YES		Training for Health and safety measures has been given to contractor. Regular awareness is necessary. The contractor has nominated one representative for H&S

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
				(safety of workers/public) to abide the H&S norms strictly.
16	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites	YES		Traffic diversion routes are provided to avoid this problem
17	Plan transport of waste to avoid peak traffic and tourist season	YES		As per present site condition – not required When work will start within the town, traffic diversion will be considered
18	Suitable short term traffic diversion and implementation of traffic management plan at construction site	YES		Proper caution boards, sign boards and safety tapes placed. Traffic diversions are provided at necessary points.
19	Consideration of public safety – as per prescribed mitigation measures	YES		Barricading and use of safety tape are practiced at excavated site. Training has been given to contractor for implementation of public safety arrangement at work sites and contractor has nominated a person as health safety representative
20	Adequate facility provided for disposal of sewage sludge from STP	YES		Considered in DPR
21	Adequate provision for disposal of silt from sewer line	YES		Considered in DPR
22	Adequate provision for discharge of treated effluent to irrigated land		NA	As per site condition provision will be considered
23	Suitable measures considered as per mitigation plan for maintaining ecological stability – though plantation at impacted sites and maintaining green buffer zone		NA	Plantation will be considered after construction Not applicable at present
24	Suitable measures within the STP including acoustics panels and vegetation cover around STP		NA	Plantation will be considered after construction Not applicable at present
25	Employ at least 50% of workforce from communities near sites	YES		During earth work local labor will be hired
26	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring and quarterly reporting will be done

NA- Not applicable, NR- Not required

Jaisalmer Land Fill Site

Project: Development of Sanitary Land Fill Site in Jaisalmer
Package No: RUSDIP/TR-01/JSL/SW/07
Progress: Excavation of trenches ,Construction work for Building & Weighbridge is in progress
(Physical progress – 5 % as on 31.12.09)

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
		YES	NO	
PRECONSTRUCTION STAGE				
1	Site preparation work completed by IPIU including necessary clearance	YES		Land is already allotted to the Municipal Board, Jaisalmer For project clearance Environmental Impact Assessment study under progress
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement	YES		Labour camps are made with drinking water facilities (bore well), separate toilets for ladies and gents. But lighting facilities and water supply in Toilets and Bathrooms are required to be ensured. Partially complied.
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The excavated materials are being reused for back filling and in levelling of low lying areas immediately after completion of excavation work.
4	Felling of tree done (if necessary) with precaution as mentioned in mitigation measures	YES		Only small trees of Safed Babool were there, contractor has ensured that three trees will be planted at the cost of removal of one tree.
5	Water sprinkling at construction site for arresting dust	YES		Sprinkling of water is not done regularly at construction site for arresting fugitive dust. Partially complied
6	Materials carrying vehicle are covered		NR	Contractor has ensured that all Materials carrying vehicle will covered.
7	Use of PPE like helmet, gumboot, gloves, nose musk, etc.	YES		Labourers are using all PPE.
8	Storage of construction materials in proper shape	YES		There will be a separate shed for storage of construction material.
9	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification	YES		Contractor has ensured the submission of PUC certificate for all vehicles & machinery engaged in work. Partially complied
10	Consideration of public safety- as per prescribed mitigation measures	YES		Public safety is considered within the specified area
11	Adequate provision for discharge of waste water generated during construction	YES		Waste water generated will be reused or mitigation measures will be taken for its discharge.
12	Consideration of slope stability at landfill site	YES		All these parameters are considered in DPR.
13	Suitable measures considered as per mitigation plan for maintaining ecological stability – though plantation at impacted site and maintaining green buffer zone	YES		Provision for plantation of 33 % area of total land allotted for land fill site is already considered in DPR. Plantation work will be started shortly.
14	Continuous monitoring on implementation of mitigation measures	YES		Training given to the supervision staff for implementation of mitigation measures.

NA- Not applicable, NR- Not required

ALWAR

Alwar Water Supply

Project: Replacement of in-efficient pumping machinery etc.; providing and installation of chlorination equipments, etc. in Alwar				
Package No: RUSDIP/TR-01/ALW-JHL/WS-01 Lot-1				
Progress: Completion stage (Physical progress - 98% as on 31.12.09)				
Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	
1	Site preparation work completed by IPIU including necessary clearance	YES		No clearances are required from Pollution Control Board. In most of the cases land made available by IPIU.
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	At present local labour employed. No need to establish camp
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the overburden excavated materials on nearby grounds for refilling activities. Extra earth given to local people for filling up low laying areas
4	Water sprinkling at construction site for arresting dust		NR	Not required at present
5	Materials carrying vehicle are covered		NR	Not required at present
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification	YES		Two Numbers PUC certificate of vehicle given by the contractor
7	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NR	Not required at present
8	Regular maintenance of noise producing equipment done		NR	Not required at present
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA	Not applicable at present due to nature of work
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	There is no tree felling necessary till date
11	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable at present due to nature of work
12	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves, safety tape, nose musk and earplugs at work place		NA	Not applicable at present due to nature of work

Project: Replacement of in-efficient pumping machinery etc.; providing and installation of chlorination equipments, etc. in Alwar				
Package No: RUSDIP/TR-01/ALW-JHL/WS-01 Lot-1				
Progress: Completion stage (Physical progress - 98% as on 31.12.09)				
Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
13	Provide Health and Safety training to all personnel and implement H & S plan	YES		Training has been given to contractor. Regular awareness is necessary. The contractor is engaged one representative for H&S (safety of workers/public) and instructed to abide the H&S norms strictly. Partially complied
14	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites	YES		As per present site condition contractor using proper diversion & cautionary board to ensure safe work activity on site
15	Plan transport of waste to avoid peak traffic and tourist season		NR	As per present site condition - not required
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site		NA	Works will be carried out without causing any congestion to the existing traffic condition. Also traffic diversions will be provided at necessary points if required
17	Consideration of public safety - as per prescribed mitigation measures		NR	Works will be carried out without causing any congestion to the existing traffic condition. Also traffic diversions will be provided at necessary points in future
18	Employ at least 50% of workforce from communities near sites	YES		At present most of the workforce is hired locally.
19	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring and quarterly reporting will be continued

NA- Not applicable, NR- Not required

Alwar Water Supply

<p>Project: Providing, Laying, Jointing, Testing & Commissioning of water pipe line for the strengthening of distribution system and replacement of Leaking pipelines and rising main pipelines; Construction and Commissioning of Elevated Service Reservoirs.</p> <p>Package No: RUSDIP/TR-01/ ALW/WS-02</p> <p>Progress: - OHSRs at Tej Mandi: RCC work Completed, Piping work under progress.</p> <ul style="list-style-type: none"> • OHSRs at Scheme No.: 2- RCC work Completed, Piping work under progress. • OHSRs at Manu Marg: Bottom Dom, conical wall completed • OHSRs at Pratap school: Column height completed, reinforcement and shuttering for bottom dome, conical wall in progress. • OHSRs at Ashok Vihar: Bottom Dome, conical wall completed. 4th lift of vertical wall in progress. • OHSR Scheme No 10: Column height completed reinforcement and shuttering for bottom dome, conical wall in progress. • OHSRs at Kala Kuan: PCC completed reinforcement of raft in progress. • OHSRs at Jodha Patel Nagar: Earth work completed. • CWRs at Ladia ground: Earth work completed. Gravel packing in progress. • CWRs at Kala Kuan : Decision yet to taken on capacity of CWR <p>Pipe Laying</p> <p>5.10 Kms of rising main pipe line laid and 43.70 KM distribution main laid</p> <p>(Overall physical progress of the package- 35% upto 31.12.09)</p>
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Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	
1	Site preparation work completed by IPIU including necessary clearance	YES		No clearances are required from Pollution Control Board. In most of the cases land made available by IPIU/ Line department
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	At present local labour employed. No need to establish camp at present
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the overburden excavated materials on nearby grounds for refilling activities. Extra earth will be given to local people for filling up low laying areas
4	Water sprinkling at construction site for arresting dust	YES		Sprinkling of water is being done partially
5	Materials carrying vehicle are covered	YES		At present material carrying activities started and most of the vehicles are covered while transportation of materials
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification	YES		Few PUC certificates are submitted by contractors and remaining will be submitted soon Partially complied
7	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery	YES		Construction is going on. Contractor arrange partly
8	Regular maintenance of noise producing equipment done	YES		Under process
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA	Not applicable at present Instruction given to the contractor and contractor is ready to make the arrangement
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	There is no tree felling necessary
11	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable at present. Instruction is given to the contractor for proper arrangement to avoid the water flooding at the site.
12	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves, safety tape, nose musk and earplugs at work place	YES		Contractor using the safety equipment like helmet as per the requirement of site Partially complied
13	Provide Health and Safety training to all personnel and implement H & S plan	YES		Construction work started. Training has been given to contractor. Regular awareness is necessary. The contractor is engaged a representative for H&S (safety of

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
				workers/public) and instructed to abide the H&S norms strictly. Partially complied
14	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites	YES		The trucks following the roads having less traffic and material is being transported during less traffic hours As per present site condition contractor using diversion & cautionary board to ensure safe work activity.
15	Plan transport of waste to avoid peak traffic and tourist season	YES		Waste material transport during off peak hours As per present site condition contractor using diversion & cautionary board to ensure safe work activity on site but some more cautionary boards are required in the site ensuring display in local language
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site		NA	Works will be carried out without causing any congestion to the existing traffic condition.
17	Consideration of public safety - as per prescribed mitigation measures	YES		Necessary safety measures are being adopted. Barricading & safety ribbon used partially. Training has been given to contractor for implementation of public safety arrangement at work sites
18	Employ at least 50% of workforce from communities near sites	YES		At present most of the workforce is hired locally.
19	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring and quarterly reporting will be continued

NA- Not applicable, NR- Not required

Alwar Bridge

Project: Construction of Approaches & Viaduct spans of ROB at Itarana level crossing No.117 in Alwar.				
Package No: RUSDIP/TR-01/ALW/BR/01				
Progress: 43 Piles casted 2 Pile cap casted (Physical progress - 11% as on 31.12.09)				
Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	
1	Site preparation work completed by IPIU including necessary clearance	YES		No clearances are required from Pollution Control Board. In most of the cases land made available by IPIU.
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	At present local labour employed. No need to establish camp at present
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the overburden excavated materials on nearby grounds for refilling activities. Extra earth will be given to local people for filling up low laying areas
4	Water sprinkling at	YES		Progress of work going on in full flow.

Project: Construction of Approaches & Viaduct spans of ROB at Itarana level crossing No.117 in Alwar.			
Package No: RUSDIP/TR-01/ALW/BR/01			
Progress: 43 Piles casted 2 Pile cap casted (Physical progress - 11% as on 31.12.09)			
Sr. No.	Environmental components related to project activities	Compliance	Explanation (in case of done or not done justification necessary)
	construction site for arresting dust		Arrangement has been made
5	Materials carrying vehicle are covered	YES	All material carrying vehicles are covered
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification		NO PUC yet to submit
7	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NO It will be done shortly
8	Regular maintenance of noise producing equipment done		NO It will be done.
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA Not applicable at present due to nature of work
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR There is no tree felling necessary till date
11	Local flooding from watering of excavation, flushing pipes etc.		NA Not applicable at present due to nature of work
12	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves, safety tape, nose musk and earplugs at work place	YES	All the contractor labors are using PPE
13	Provide Health and Safety training to all personnel and implement H & S plan	YES	Training has been given to contractor. Regular awareness is necessary.
14	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites	YES	As per present site condition contractor using proper diversion & cautionary board to ensure safe work activity on site
15	Plan transport of waste to avoid peak traffic and tourist season	YES	As per present site condition contractor using diversion & cautionary board to ensure safe work activity on site
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site		NA Works will be carried out without causing any congestion to the existing traffic condition.
17	Consideration of public safety - as per prescribed mitigation measures	YES	Barricading and use of safety tape done at excavated site. Training has been given to contractor for implementation of public safety arrangement at work sites
18	Employ at least 50% of workforce from communities	YES	At present most of the workforce is hired locally.

Project: Construction of Approaches & Viaduct spans of ROB at Itarana level crossing No.117 in Alwar.				
Package No: RUSDIP/TR-01/ALW/BR/01				
Progress: 43 Piles casted 2 Pile cap casted (Physical progress - 11% as on 31.12.09)				
Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
	near sites			
19	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring and quarterly reporting will be continued

NA- Not applicable, NR- Not required

Alwar Waste Water

Project :- Providing, Laying, Jointing, Testing and Commissioning part of outfall sewer of 1000 mm dia HDPE pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar				
Package:- RUSDIP/TR-01/ ALW/WW/01- Lot 2				
Progress:- Pipe laying of 174 m done- rest under progress (Physical progress - 11% as on 31.12.09)				
Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	
1	Site preparation work completed by IPIU including necessary clearance	YES		No clearances are required from Pollution Control Board. In most of the cases land made available by IPIU.
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	At present local labour employed. No need to establish camp at present
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the overburden excavated materials on nearby grounds for refilling activities. Extra earth will be given to local people for filling up low laying areas
4	Water sprinkling at construction site for arresting dust	YES		Partially complied
5	Materials carrying vehicle are covered	YES		All material carrying vehicles are covered
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification		NO	PUC will be submitted shortly
7	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NO	It will be done shortly
8	Regular maintenance of noise producing equipment done		NO	It will be done.
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA	Not applicable at present due to nature of work
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of		NR	There is no tree felling necessary till date

Project :- Providing, Laying, Jointing, Testing and Commissioning part of outfall sewer of 1000 mm dia HDPE pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar				
Package:- RUSDIP/TR-01/ ALW/WW/01- Lot 2				
Progress:- Pipe laying of 174 m done- rest under progress (Physical progress - 11% as on 31.12.09)				
Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
	three trees for each tree fell.			
11	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable at present due to nature of work
12	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves, safety tape, nose musk and earplugs at work place	YES		All the contractor labors are using PPE
13	Provide Health and Safety training to all personnel and implement H & S plan	YES		Training has been given to contractor. Regular awareness is necessary. The contractor is engaged one representative for H&S (safety of workers/public) and instructed to abide the H&S norms strictly. Partially complied
14	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites		NO	Will be done as per requirement
15	Plan transport of waste to avoid peak traffic and tourist season	YES		As per present site condition contractor using diversion & cautionary board to ensure safe work activity on site
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site		NA	Works will be carried out without causing any congestion to the existing traffic condition.
17	Consideration of public safety - as per prescribed mitigation measures	YES		Barricading and use of safety tape done at excavated site. Training has been given to contractor for implementation of public safety arrangement at work sites
18	Employ at least 50% of workforce from communities near sites	YES		At present most of the workforce is hired locally.
19	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring and quarterly reporting will be continued

NA- Not applicable, NR- Not required

Alwar Waste Water

Project :- Providing, Laying, Jointing, Testing and Commissioning of outfall/ trunk sewers of 800 to 1200 mm RCC pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar {RUSDIP/ TR-01/ALW/WW/02 (Lot-1)}				
Progress:- 560 meter open trench excavated in Chainage (59602 – 6534) and 0.5 km laid (Physical progress - 15% as on 31.12.09)				
Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	

Project :- Providing, Laying, Jointing, Testing and Commissioning of outfall/ trunk sewers of 800 to 1200 mm RCC pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar { RUSDIP/ TR-01/ALW/WW/02 (Lot-1) } Progress:- 560 meter open trench excavated in Chainage (59602 – 6534) and 0.5 km laid (Physical progress - 15% as on 31.12.09)				
Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
1	Site preparation work completed by IPIU including necessary clearance	YES		No clearances are required from Pollution Control Board. In most of the cases land made available by IPIU.
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	At present local labour employed. No need to establish camp at present
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the overburden excavated materials on nearby grounds for refilling activities. Extra earth will be given to local people for filling up low laying areas
4	Water sprinkling at construction site for arresting dust	YES		Comply as and when required
5	Materials carrying vehicle are covered	YES		All material carrying vehicles are covered
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification		NO	PUC will be submitted shortly
7	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NR	It will be done shortly
8	Regular maintenance of noise producing equipment done		NR	It will be done.
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA	Not applicable at present due to nature of work
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	There is no tree felling necessary till date
11	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable at present due to nature of work
12	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves, safety tape, nose mask and earplugs at work place	YES		All the contractor labors are using PPE
13	Provide Health and Safety training to all personnel and implement H & S plan	YES		Training has been given to contractor. Regular awareness is necessary. The contractor is engaged one representative for H&S (safety of workers/public) and instructed to abide the H&S norms strictly. Partially complied

Project :- Providing, Laying, Jointing, Testing and Commissioning of outfall/ trunk sewers of 800 to 1200 mm RCC pipe including construction of all necessary manholes, appurtenances, etc. and restoration of roads as per detailed specification in Alwar { RUSDIP/ TR-01/ALW/WW/02 (Lot-1) }				
Progress:- 560 meter open trench excavated in Chainage (59602 – 6534) and 0.5 km laid (Physical progress - 15% as on 31.12.09)				
Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
14	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites	YES		As per present site condition contractor using proper diversion & cautionary board to ensure safe work activity on site
15	Plan transport of waste to avoid peak traffic and tourist season	YES		As per present site condition contractor using diversion & cautionary board to ensure safe work activity on site
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site		NA	Works will be carried out without causing any congestion to the existing traffic condition.
17	Consideration of public safety - as per prescribed mitigation measures	Yes		Barricading and use of safety tape done at excavated site. Training has been given to contractor for implementation of public safety arrangement at work sites
18	Employ at least 50% of workforce from communities near sites	YES		At present most of the workforce is hired locally.
19	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring and quarterly reporting will be continued

NA- Not applicable, NR- Not required

SIKAR

Sikar Drainage

Project : Construction of storm water drainage in Sikar Package No.: RUSDIP/TR-2/SKR/DR/01 Progress: Drain Construction work is going on (Physical progress – 9% as on 31.12.09)
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Sr. No.	Environmental components related to project activities	Compliance		Explanation * (in case of done or not done- justification necessary)
		YES	NO	
PRECONSTRUCTION STAGE				
1	Site preparation work completed by IPIU including necessary clearance	YES		No additional clearance is required
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	Mostly Local labors are engaged. So labor camp are not required
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the over burdens and excavated materials on nearby area along the trenches and most of these materials are being used for refilling. The unusable extra excavated materials and over burdens are being disposed at low laying area as per direction of ULB
4	Felling of tree done (if necessary) with precaution as mentioned in mitigation measures	YES		13 numbers tree removed. Three trees against each tree fell will be planted as per compensatory plan
5	Water sprinkling at construction site for arresting dust		NR	No generation of dust at present due to type of work – water sprinkling is not required. It will be considered for specific work
6	Materials carrying vehicle are covered	YES		At present stone carrying trucks are not covered (not required).But cement carrying trucks are fully covered.
7	Use of PPE at working site	YES		PUC certificate are not obtained but contractor has ensured the submission of PUC certificate for all vehicles and machinery engaged in work. Partly complied
8	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NR	At present work is being executed on open land site
9	Regular maintenance of noise producing equipment done		NA	Not applicable presently
10	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification	YES		Contractor has been instructed to collect PUC certificate for materials carrying vehicles and construction equipments at earliest
11	Suitable short term traffic diversion and implementation of traffic management plan at construction site done		NR	Not required at present
12	Chances of water bodies pollution from construction		NR	No such condition exist at site

Sr. No.	Environmental components related to project activities	Compliance		Explanation * (in case of done or not done- justification necessary)
		YES	NO	
13	Drainage crossing National Highways and railways - done without any disturbance through construction of culvert etc.		NA	Not done yet.
14	Disposal of construction debris if any as per mitigation measures done		NR	No debris produced at site. The overburdens and excavated earths are being utilized for backfilling and leveling of undulated grounds.
15	Arrangement for drainage of waste water and arresting solid waste from waste water generated at construction sites		NR	Not generated at present
16	Consideration of public safety –use of safety tape, barricade, caution board or as per prescribed mitigation measures	YES		Use of safety caution tape noted at site. Use of caution signboards, barricading, delineators, need to be considered at site Partially complied
17	Adequate provision for disposal of drainage silt		NR	Will be considered during specific work
18	Continuous monitoring on implementation of mitigation measures	YES		Continuous Monitoring of implementation of safeguard measures ensured

NA- Not applicable, NR- Not required

Sikar Waste Water

Project: Construction of Sewerage Network and 10 MLD STP – In Sikar

Package No: RUSDIP/TR-01/ SKR/WW-01

Progress: laying of Sewer Line is in progress (Physical progress – 2 % as on 31.12.09)

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	
1	Site preparation work completed by IPIU including necessary clearance	YES		Consent for STP is obtained
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement	YES		Labour camps are made with drinking water facilities (bore well), separate toilets for ladies and gents.
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the over burdens and excavated materials on nearby area along the trenches and most of these materials are being used for refilling.
4	Trenches have filled up and surface protection done, pavement surface restored	YES		Trenches have been filled up Pavement restoration work is not started. Partially complied
5	Water sprinkling at construction site for arresting dust	YES		Sprinkling of water is not done regularly at construction site for arresting fugitive dust. Partially complied

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
6	Materials carrying vehicle are covered		NR	At present material carrying activities not started in full. Only pipes are transported at working site.
7	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification		NO	Contractor has ensured the submission of PUC certificate for all vehicles and machinery engaged in work.
8	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NR	Concerned work not yet started. Will be considered at the time of specific work
9	Regular maintenance of noise producing equipment done		NR	Not required at present
10	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA	Not applicable at present due to nature of work
11	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	There is no tree felling necessary till date
12	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable at present due to nature of work
13	Laying of sewer pipeline crossing National Highways and railways - done without any disturbance through trench-less construction method		NR	Not applicable at present due to nature of work
14	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves, safety tape, nose musk and earplugs at work place	YES		Labourers are using all PPE partially
15	Provide Health and Safety training to all personnel and implement H & S plan	YES		Training for Health and safety measures has been given to contractor. Regular awareness is necessary.
16	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites	YES		Traffic diversion routes are provided to avoid this problem
17	Plan transport of waste to avoid peak traffic and tourist season		NR	As per present site condition – not required When work will start within the town, traffic diversion will be considered
18	Suitable short term traffic diversion and implementation of traffic management plan at construction site	YES		Traffic diversions are provided at necessary points.
19	Consideration of public safety – as per prescribed mitigation measures	YES		Barricading and use of safety tape are practiced at excavated site. Training has been given to contractor for implementation of public safety arrangement

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
				at work sites and contractor has nominated a person as health safety representative
20	Adequate facility provided for disposal of sewage sludge from STP	YES		Considered in DPR
21	Adequate provision for disposal of silt from sewer line	YES		Considered in DPR
22	Adequate provision for discharge of treated effluent to irrigated land		NA	As per site condition provision will be considered – not applicable at present
23	Suitable measures considered as per mitigation plan for maintaining ecological stability – though plantation at impacted sites and maintaining green buffer zone		NA	Plantation will be considered after construction Not applicable at present
24	Suitable measures within the STP including acoustics panels and vegetation cover around STP		NA	Plantation will be considered after construction Not applicable at present
25	Employ at least 50% of workforce from communities near sites	YES		Local labours are employed
26	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring and quarterly reporting will be done

NA- Not applicable, NR- Not required

CHITTORGARH

Chittorgarh Bridge

<p>Project : Construction of two Nos. high level Bridge on Gambhiri & Bedach in Chittorgarh</p> <p>Package No: RUSDIP/TR-02/ CHT/BR-01</p> <p>Progress: As on 31.12.09 following works are in progress :</p> <ul style="list-style-type: none"> • Earth work Excavation <u>Bedach river Bridge</u> Abutments- 2 Nos and Piers - 4Nos are completed <u>Gambhir river Bridge</u> Piers – 9 Nos are completed rest under progress • PCC for foundation <u>Bedach river Bridge</u> Abutments- 2 Nos and Piers - 4Nos are completed <u>Gambhir river Bridge</u> Piers – 9 Nos are completed rest under progress • Raft Foundation <u>Bedach river Bridge</u> Abutments- 2 Nos and Piers - 4Nos are completed <u>Gambhir river Bridge</u> Piers – 7Nos are completed rest under progress • RCC M-35 <u>Bedach Bridge</u> Abutment (A1)- 1 No 3rdLift,A2- 1st lift are completed rest under progress <u>Pier(P2&P3)-</u> 1st lift,P1-3rd lift , P6- final lift are completed (Physical progress: 14% as on 31.12.09)

S. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
PRECONSTRUCTION STAGE				
		YES	NO	
1	Site preparation work completed by IPIU including necessary clearance	YES		Site handing over letter from IPIU is already submitted
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement	YES		The temporary campuses with adequate facilities have been made for outside labourers .Most of the workforces are also being hired locally.
3	Use waste sand and stone form sewerage subproject and material dug to create bridge pier foundation.		NO	At present sewerage work is not started.
4	Above excavation of material to fill access ramps – which affect drainage, air & soil quality topography at extraction site.	YES		Presently the excavated materials are dumped near the site premises with access spaces provided between the mounds of soil and will be utilized beneficially for backfilling for Sprinkling.
5	Proper storage of materials including fuels, unless it may affect water quality of river during construction.	YES		No Fuel has been used since all machinery is electrically operated hence no contamination is envisaged due to fuels, storage of cement & other construction materials
6	Water sprinkling at construction site and stockpile for arresting dust.		NR	At present no water sprinkling is done due to nature of work (concreting & Reinforcement and shuttering). But necessary instruction given to the contractor for arrangement of sprinkler at working site during the dust emissions
7	Materials carrying vehicle are covered.	YES		During the haulage of dry soil & cement bags the vehicles are covered to avoid spillage and dust emissions to the environment
8	All vehicles and equipments mobilized to construction site and producing emission, have pollution control board certification	YES		PUC certificates was collected and already submitted

S. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
9	At sensitive location enclosures provided around generator et and concrete mixture or other noise producing machinery.		No	The existing constructional activities being carried out at available govt. lands. Also instructions given to the contractor to provide necessary precautions to curtail noise pollution
10	Regular maintenance of noise producing equipment done	YES		Done as per requirement.
11	Avoidance use of pneumatic drills that may lead to noise ,dust		NO	Presently not used
12	Arrangement or drainage of waste water and arresting solid waste from waste water generated at construction site – protection of land and water body	YES		Small drain is made & that is also connected to the <i>nallah</i> which carries sewage from the city
13	Felling of tress done (if necessary) with mitigation measures i.e. planting of three trees for each tree fill.	YES		NOC already obtained regarding tree felling
14	Maintain safe passage of vehicles and pedestrians at all times	YES		The Width of passage is more.
15	Keep road partly closure to a minimum frequency and duration	YES		The road is partly close of traffic movement
16	Ensure use of personal protective equipment like helmet, gumboot, gloves, safety belt ,nose musk and earplugs at working place .	YES		Partially implemented.
17	Provide health and safety training to all personnel and implement H & S plan		NO	Contractor was instructed by DSC Through IPIU to nominate one representative for implementation of EMP for each package Also the contractor was instructed periodically to ensure the health and safety of the workers at the constructional site and to abide the H&S norms' strictly.
18	Plan truck routes for haulage of construction materials to avoid narrow or congested roads important or fragile buildings, religious and tourist sites.		NR	The haulage for the construction, site is wide and there will be no problem.
19	Plan transport of waste to avoid peak traffic and tourist season.		NR	Presently there is no major generation of waste materials at the constructional sites. The excavated materials will be utilized beneficially for backfilling .Hence there is no peak traffic during tourist season is anticipated.
20	Suitable short term traffic diversion and implementation of traffic management plan at construction site		NR	Works are being carried out without causing any congestion to the existing traffic condition. Also traffic diversions will be provided at necessary juncture.
21	Increase workforce in inhabited/congested areas to finish work quickly.		NR	Presently the major works are at government land premises and increasing of work force will be considered when necessary.
22	Determine location of water pipes, electricity pylons , etc and design scheme to avoid damage during construction	YES		Works will be carried considering this issue
23	Consult town authority and avoid existing infrastructure	YES		Presently the major works are at government land premises

S. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
24	Consideration of public safety as per prescribed mitigation measures	YES		Barricading and use of caution tape is reasonably done. Instruction has been given to contractor for implementation of public safety arrangement at work sites. Also the contractor was instructed periodically to ensure the health and safety of the public and also the workers at the constructional site and to abide the H&S norms strictly.
25	Plan work with town authorities – work when traffic is light	YES		Works carried out without causing any congestion to the existing traffic condition.
26	Request archaeological authorities to assess potential of all sites		NR	Not Required
27	Include state and town historical authorities as stakeholders		NR	Not Required
28	Develop and apply archaeological protocol to protect chance finds		NR	Not Required
29	Inform community type of work in advance and address their concerns		NR	Presently the major works are at government land premises and information will be passes to community as per requirement
30	Maintaining schedule of the work- Conduct excavation and ground works in dry season to avoid accumulation of rain water at dug areas and wash soil off stockpiles	YES		Work planning is done accordingly; excavation and back filling will be completed before rainy season hence no accumulation of rain water is expected.
31	Employ at least 50% of workforce from communities near sites	YES		Most of the workforce is hired locally.
32	Continuous monitoring on implementation of mitigation measures	YES		Continuous monitoring is being carried out on implementation of Environmental safeguards /Health & Safety norms at the work sites. Also the preparation and submission of Monthly/Quarterly Environmental Monitoring Report is in practice.

NA- Not applicable, NR- Not required

KARAULI

Karauli Water Supply

Project: Construction of OHRs and balancing reservoir including providing, Laying, Jointing, Testing and Commissioning of D.I. pipelines in Distribution system and Transmission system, and replacing of existing leaking pipelines, replacement of water meters for UWSS in Karauli town.

Package No: RUSDIP/TR-02/KRL/WS/01

Progress: 8.5 km raising line laid in Patana colony, Karamchari colony, Chubey colony along with NH 11 B (**Physical progress: 5 % as on 31.12.09**)

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
		YES	NO	
PRECONSTRUCTION STAGE				
1	Site preparation work completed by IPIU including necessary clearance	YES		No clearances are required from Pollution Control Board. In most of the cases land made available by Line department.
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	At present local labour employed. No need to establish camp at present
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the overburden excavated materials on nearby grounds for refilling activities. Extra earth will be given to local people for filling up low laying areas
4	Water sprinkling at construction site for arresting dust	YES		Not Required due to Winter Season
5	Materials carrying vehicle are covered	YES		Material carrying activities not yet started
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification		NO	PUC certificate of vehicle will be submitted by the contractor
7	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NO	It will be provided soon.
8	Regular maintenance of noise producing equipment done		NO	It will be done regularly
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA	Instruction given to the contractor & contractor is ready to make the arrangement at earliest
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	There is no necessity of tree felling
11	Local flooding from watering of excavation, flushing pipes etc.		NA	Instruction given to the contractor. Not applicable at present
12	Ensure use of Personal Protective Equipment like	YES		Contractor using the safety equipment as per the requirement of site

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
	helmet, gumboot, gloves, safety tape, nose musk and earplugs at work place			
13	Provide Health and Safety training to all personnel and implement H & S plan		NO	Project implementation just started. Training will be given shortly
14	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites		NR	It will be done as per requirement
15	Plan transport of waste to avoid peak traffic and tourist season		NR	It will be done as per requirement
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site		NR	It will be done as per requirement
17	Consideration of public safety - as per prescribed mitigation measures	YES		Necessary safety measures are being adopted. Barricading & caution tapes are being used
18	Employ at least 50% of workforce from communities near sites	YES		At present most of the workforce is hired locally.
19	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring and quarterly reporting will be continued

NA- Not applicable, NR- Not required

SAWAI MADHOPUR

Sawai Madhopur ROB

Project: Construction of Railway over Bridge at Kherda Railway crossing (on NH -116 at level crossing no .T/2-B) at Swai Madhopur. Package No: RUSDIP/TR-02/SMD/BR/01 Progress: - Vertical and lateral load test completed on test pile. 400 meter drain work completed in both side 85 meter pile completed (Physical progress: 5% as on 31.12.09)

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
		YES	NO	
PRECONSTRUCTION STAGE				
1	Site preparation work completed by IPIU including necessary clearance	YES		No clearances are required from Pollution Control Board. In most of the cases land made available by Line department.
CONSTRUCTION STAGE				
2	Establishment of temporary camps with sanitary and solid waste management arrangement		NR	At present local labour employed. No need to establish camp at present
3	Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures	YES		The contractor is stock piling the overburden excavated materials on nearby grounds for refilling activities. Extra earth will be given to local people for filling up low laying areas
4	Water sprinkling at construction site for arresting dust	YES		Sprinkling of water is being done regularly
5	Materials carrying vehicle are covered	YES		Material carrying activities started and vehicles are covered
6	All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification	YES		Two Numbers PUC certificate of vehicle given by the contractor. Partially complied
7	At sensitive locations enclosures provided around generator set and concrete mixture or other noise producing machinery		NO	It will be provided soon.
8	Regular maintenance of noise producing equipment done	YES		It is being done regularly
9	Arrangement of drainage of waste water and arresting solid waste from waste water generated at construction site		NA	Instruction given to the contractor & contractor is ready to make the arrangement soon
10	Felling of trees done (if necessary) with mitigation measures i.e. planting of three trees for each tree fell.		NR	There is no tree felling necessary
11	Local flooding from watering of excavation, flushing pipes etc.		NA	Not applicable as per nature of work
12	Ensure use of Personal Protective Equipment like helmet, gumboot, gloves,	YES		Contractor using the personal safety equipment as per the requirement at site

Sr. No.	Environmental components related to project activities	Compliance		Explanation (in case of done or not done justification necessary)
	safety tape, nose musk and earplugs at work place			
13	Provide Health and Safety training to all personnel and implement H & S plan	YES		Construction work is going on Training has been given to contractor. Regular awareness is necessary. Contractor engaged one representative for H&S (safety of workers/public) and instructed to follow the H&S norms strictly.
14	Plan truck routes to avoid Town, narrow or congested roads, important or fragile buildings, religious and tourist sites	YES		The trucks following the routes having less traffic and material is being transported during off peak hours.
15	Plan transport of waste to avoid peak traffic and tourist season	YES		Transportation of waste material is being done in off peak hours
16	Suitable short term traffic diversion and implementation of traffic management plan at construction site		NA	Works will be carried out without causing any congestion to the existing traffic condition.
17	Consideration of public safety - as per prescribed mitigation measures	YES		Necessary safety measures are being adopted. Barricading & safety tapes are being used. Training has been given to contractor for implementation of public safety arrangement at work sites
18	Employ at least 50% of workforce from communities near sites	YES		At present most of the workforce is hired locally.
19	Continuous monitoring on implementation of mitigation measures	YES		Regular monitoring and quarterly reporting will be continued

NA- Not applicable, NR- Not required

ANNEXURE 3

Instructions for Contractor- Environmental Safeguard

- Setting up camp office with proper sanitation condition, solid waste management facility and sufficient drinking water supply. Non cutting of trees during setting up camp
- Removal / disposal of overburden earth/ stone materials at earliest without any accumulation at working sites
- Proper disposal of other construction waste
- Proper storage of construction materials
- Requirement of blasting permission with specification of blasting time as required
- Filling up trenches and open excavated part before monsoon
- Felling of trees if done to be compensated by plantation
- Scheduling of work without any social impact – movement of pedestrian (particularly during tourist/ festive seasons) or other disturbances etc.
- Regular water sprinkling at construction site
- Covering of materials carrying vehicles
- Personnel safety of workforce – use of ear plugs, nose musk, safety belt, helmet, gloves, gumboots etc at working sites
- Instruction to material supplier/ contractor to arrange pollution under control certificate for material carrying vehicles
- Regular maintenance of noise producing machinery
- Providing enclosure for noise producing equipment like generator, concrete mixture
- Implementation of traffic diversion measures including use of safety tape/ barricade/ caution board at working sites
- Proper drainage of waste water/ rain water from working sites
- Arrangement of common medicine and First Aid box at camp site
- Awareness program on HIV/AIDS

ANNEXURE 4

Testing parameters

Air Quality

- Air pollution monitoring – for STP- 2 locations nearby STP site for 4 days 24 hrs. for SPM, RSPM, SO₂, NO_x and CO
- Air pollution monitoring – for Bridge - 2 locations nearby bridge site for 3 days 24 hrs. for SPM, RSPM, SO₂, NO_x and CO
- Air pollution monitoring – for Landfill - 4 locations (one at center and rest at 3 locations 120 degree apart) for 3 days 24 hrs. for SPM, RSPM, SO₂, NO_x and CO

Noise Level

- Noise level monitoring at 3 nearby locations for one time in six months- in case of STP
- Noise level monitoring at 5 nearby locations for one time in six months- in case of Bridge
- Noise level monitoring at 4 nearby locations (preferably near air quality measuring sites) for one time in six months- in case of Landfill site

Water Quality

- Surface water quality- Atleast 2 surface water quality (pond, river, *nala*) samples in and around STP (if location exist)

Parameter
Turbidity NTU
pH
Total Suspended Solid mg/l
Total Dissolved Solid mg/l
Total Hardness as CaCO ₃ mg/l
Dissolved Oxygen mg/l
Biological Oxygen Demand mg/l
Chemical Oxygen Demand mg/l
Chloride mg/l
Sulphate mg/l
Nitrate mg/l
Sodium mg/l
Potassium mg/l
Calcium mg/l
Magnesium mg/l
Iron mg/l
Manganese mg/l
Cadmium mg/l
Arsenic mg/l
Chromium mg/l
Copper mg/l
Mercury mg/l
Lead mg/l
Selenium mg/l
Aluminium mg/l
Zinc mg/l
Boron mg/l
Fluorine mg/l
Chlorine (residual free) mg/l

Parameter
Phenolic Compound mg/l
Cyanide mg/l
Phosphate mg/l

- Surface water quality- Atleast 2 surface water quality (upstream and down stream) for each river bridge
- Surface water quality- Atleast 2 surface water quality (pond, river, *nala*) samples in and around Landfill site (if location exist)
- Ground water quality – Atleast 3 ground water samples near landfill for the following parameters,

Parameters
pH
Total Dissolved Solid mg/l
Total Hardness as CaCO ₃ mg/l
Alkalinity as mg/l
Dissolved Oxygen mg/l
Chloride mg/l
Sulphate mg/l
Nitrate mg/l
Iron mg/l
Manganese mg/l
Cadmium mg/l
Arsenic mg/l
Chromium mg/l
Copper mg/l
Mercury mg/l
Lead mg/l
Zinc mg/l
Fluoride mg/l
Phenolic Compound mg/l
Phosphate mg/l

ANNEXURE 5

PUBLIC CONSULTATION ON ENVIRONMENTAL ISSUES
DURING CONSTRUCTION/ IMPLEMENTATION

- Alwar
- Jaisalmer
- Jhalawar
- Chittorgarh
- Sawai Madhopur

ALWAR

PLACE OF CONSULTATION	Tuleda Road
DATE OF CONSULTATION	16.12.09
PROJECT NAME	Waste Water
PACKAGE NO.	RUSDIP/TR-01/ ALW/WW/01- Lot 1
NAME OF THE FIELD SUPERVISORS	Raju.S
NAME OF THE PERSONS	Suman, Khalil, Betuu
ADDRESS	Tuleda Road

S.No.	POINTS DISCUSSED	PUBLIC OPINION
01.	Whether dust control measures are taken up by contractor as and when required?	Yes, Sometime they did it. Mostly during afternoon water sprinkling is being done
02.	Whether traffic movement affected during construction?	No, Traffic movement not affected during the construction
03.	Is there any problem due to influx of outside people (laborer)?	Don't Know
04.	Is there any problem, if storage area is in public place?	Yes
05	Is there any problem during transportation of materials?	Yes Traffic problem, Dust Problem
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No
07	Whether construction work affects local drainage system/ water supply system?	Not much affected
08	Whether movement of locals/pedestrian affected during construction?	Yes pedestrian affected during construction.
09	Whether generated noise affects the normal life of locals?	Some noise affects the normal life.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory.

JAISALMER

A Public Consultation meeting was held on 17th December, 2009 in Gandhi Colony of Jaisalmer town where laying of Pipe line is under progress. The public consultation was aimed to understand the public opinion about the project and to identify the significant environmental issues encountered during the execution of works in order to address those unwanted issues properly and to record their suggestions and concerns to be taken care off in

PLACE OF CONSULTATION	Gandhi Colony
DATE OF CONSULTATION	17.12.09
PROJECT NAME	Water Supply
PACKAGE NO.	RUSDIP/TR-01/JSL/WS-02
NAME OF THE FIELD SUPERVISOR	Mr. Anil Kumar

SL.NO.	Points Discussed	Yes	No	Opinion Expressed
01.	Whether dust control measures are taken up by contractor as and when required?	√		The contractor is applying water sprinkling to control dust during construction and dust suppression activity is satisfactory
02.	Whether traffic movement affected during construction?	√		This is observed to some extent but is manageable since alternate routes are available.
03.	Is there any problem due to influx of outside people (labourer)?		√	Local labourers are engaged
04.	Is there any problem, if storage area is in public place?		√	No such problem has arrived
05.	Is there any problem during transportation of materials?	√		Some problem is observed but this is manageable
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?		√	No such operating equipments have been observed, however if this is brought to the site proper safety precautionary measures required.
07.	Whether construction work affects local drainage system/ water supply system?		√	Not yet, may occur in future and the Contractor should make suitable arrangement in advance for immediately repairing in case of any damage of these public utilities
08.	Whether movement of locals/pedestrian affected during construction?		√	No such problem is observed because alternate routes are there nearby our work site.
09.	Whether generated noise affects the normal life of locals?		√	No such effect is observed.
10.	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)			Satisfactory

Following persons were present during consultation:

SL.NO.	NAME OF THE PERSONS	ADDRESS
1.	Mr. Ravta Ram	Gandhi Colony
2.	Mr. Maga Ram	Gandhi Colony
3.	Mr. Phool Singh	Gandhi Colony
4.	Mr. Daalu Ram	Gandhi Colony
5.	Mr. Mukesh Kumar	Gandhi Colony
6.	Mr. Jeta Ram	Gandhi Colony
7.	Mr. Ramesh Kumar	Gandhi Colony
8.	Mr. Kheta Ram	Gandhi Colony

People are aware of the projects and they want to engage in the project. The local residents are extending their cooperation with the Contractor and have not significant complaints against the working of contractor. Some students want to engage with the project, and they feel that jobs should be given to them. As per local opinion excavated material should be removed immediately after trench excavation work because this creates a problem for them. The local residents have shown concern about damages of utilities such as water supply system, septic tanks coming within the alignment of pipelines, and local drains. They are of the opinion that the residents should be informed in advance if water supply is required to be stopped for facilitating the works and an alternative arrangements must be ensured in the area, In that area work should be done manually instead of JCB. The contractor should take care of the existing water supply line, telephone lines during construction work. If there is any problem then that should be solved with consultation with the line department of the city and with locals.

JHALAWAR –JHALARAPATAN

Consultation 1:

PLACE OF CONSULTATION	Jhalawar – Near Housing Board Colony ESR
DATE OF CONSULTATION	15.12.09
PROJECT NAME	Jhalawar – J.Patan Water Supply Scheme
PACKAGE NO.	RUSDIP/TR-01/ JHL/WS-02
NAME OF THE FIELD SUPERVISORS	Karthick.R. R
NAME OF THE PERSONS	Mr. Rameshwar
ADDRESS	Opposite to Housing Board ESR , Jhalawar.

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem to the nearby area
02.	Whether traffic movement affected during construction?	No traffic movement is affected during the constructional activities
03.	Is there any problem due to influx of outside people (laborer)?	No, there is no problem due to the constructional labors.
04.	Is there any problem, if storage area is in public place?	All constructional materials stored inside premises of the constructional site. Hence there is no problem to the public places for access.
05	Is there any problem during transportation of materials?	No problem due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	There is no problem due to the usage of concrete mixture/ hot mix plant or movement of equipment like JCB.
07	Whether construction work affects local drainage system/ water supply system?	There is no such waste generated due to the constructional activities.
08	Whether movement of locals/pedestrian affected during construction?	There is no impact on the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No such impacts due to noise generated during constructional time.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 2:

PLACE OF CONSULTATION	Jhalawar - Near Housing Board Colony ESR
DATE OF CONSULTATION	15.12.09
PROJECT NAME	Jhalawar – J.Patan Water Supply Scheme
PACKAGE NO.	RUSDIP/TR-01/ JHL/WS-02
NAME OF THE FIELD SUPERVISORS	Karthick.R
NAME OF THE PERSONS	Mr. Amin Khan
ADDRESS	Near Balaji ki chatri ESR, Jhalawar.

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem to the nearby area
02.	Whether traffic movement affected during construction?	No hindrances to the existing traffic during the constructional activities
03.	Is there any problem due to influx of outside people (laborer)?	No problem due to the constructional labors.

S.No.	POINTS DISCUSSED	REMARKS
04.	Is there any problem, if storage area is in public place?	No hindrance to the public places due to the storage of constructional materials.
05	Is there any problem during transportation of materials?	No problem due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	There is no problem due to the usage of concrete mixture/ hot mix plant or movement of equipment like JCB.
07	Whether construction work affects local drainage system/ water supply system?	No such waste generated due to the constructional activities.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 3:

PLACE OF CONSULTATION	Jhalawar – Near housing board colony ESR
DATE OF CONSULTATION	16.12.09
PROJECT NAME	Jhalawar – J.Patan Water Supply Scheme
PACKAGE NO.	RUSDIP/TR-01/ JHL/WS-02
NAME OF THE FIELD SUPERVISORS	Karthick.R. R
NAME OF THE PERSONS	Bhagaram
ADDRESS	Near Dhanwara ESR, Jhalawar.

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem to the adjacent areas.
02.	Whether traffic movement affected during construction?	No hindrances to the existing traffic condition due to constructional activities
03.	Is there any problem due to influx of outside people (laborer)?	No problem due to the constructional labors.
04.	Is there any problem, if storage area is in public place?	No storage of constructional materials in the public places.
05	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No such problems in the proximate areas.
07	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing systems.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 4:

PLACE OF CONSULTATION	Jhalawar – Khandiya colony
DATE OF CONSULTATION	16.12.09
PROJECT NAME	Jhalawar – J.Patan Water Supply Scheme
PACKAGE NO.	RUSDIP/TR-01/ JHL/WS-02
NAME OF THE FIELD SUPERVISORS	Karthick. R
NAME OF THE PERSONS	Pramod
ADDRESS	Near Radi ka Balaji ESR

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem due to constructional activities.
02.	Whether traffic movement affected during construction?	No, there is no affect to the existing traffic conditions.
03.	Is there any problem due to influx of outside people (laborer)?	No problem due to the constructional labors.
04.	Is there any problem, if storage area is in public place?	No such problems and all materials stored inside the constructional site.
05	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	There is no problem due to the usage of concrete mixture/ hot mix plant or movement of equipment like JCB.
07	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing systems.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 5:

PLACE OF CONSULTATION	Jhalawar – Dhanwara ESR
DATE OF CONSULTATION	15.12.09
PROJECT NAME	Jhalawar – J.Patan Water Supply Scheme
PACKAGE NO.	RUSDIP/TR-01/ JHL/WS-02
NAME OF THE FIELD SUPERVISORS	Karthick. R
NAME OF THE PERSONS	Mr.Ram chaudhry sharma
ADDRESS	Near Topcana ESR, Jhalawar.

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem due to constructional activities.
02.	Whether traffic movement affected during construction?	Only some temporary impact and which is inevitable.
03.	Is there any problem due to influx of outside people (laborer)?	No problem caused due to constructional labors.
04.	Is there any problem, if storage area is in public place?	No such problems.
05	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.

S.No.	POINTS DISCUSSED	REMARKS
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	There is no problem due to the usage of concrete mixture/ hot mix plant or movement of equipment like JCB.
07	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing systems.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

The major outcome of the consultation is as follows:-

- There is no generation of dust and other related issues to the nearby residents due to the constructional activities
- No interference caused to the existing traffic conditions due to the constructional activities and trucks carrying constructional materials
- Majority of constructional labors are hired locally and there is no problem identified due to influx of constructional labors
- All materials stored inside the premises of work sites without any hindrance to public places
- There is no major emission during the usage of concrete mixture/ hot mix plant or movement of equipment like JCB. But temporary disturbances of low magnitude is noted, though which is inevitable considering essentiality of the project
- Presently no impact caused to the existing drainage and water supply system
- There is no disturbances created due to generation of noise during constructional activities

In overall the local people are satisfied over the present safeguard (mitigation) measures considered by the contractor.

CHITTORGARH

Consultation 1:

PLACE OF CONSULTATION	Gambiri , Chittorgarh
DATE OF CONSULTATION	18.12.09
PROJECT NAME	Chittorgarh Bridge
PACKAGE NO.	RUSDIP/CHT/BR/01
NAME OF THE FIELD SUPERVISORS	Mukesh
NAME OF THE PERSONS	Dalibai
ADDRESS	Pakoda shop Near Gambiri river bridge

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem due to constructional activities.
02.	Whether traffic movement affected during construction?	No, there is no affect to the existing traffic conditions.
03.	Is there any problem due to influx of outside people (laborer)?	No problem due to the constructional labors.
04.	Is there any problem, if storage area is in public place?	No such problems and all materials stored inside the constructional site.
05.	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No emissions due to the running of concrete mixture/ hot mix plant.
07.	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing systems.
08.	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09.	Whether generated noise affects the normal life of locals?	No distinguish noise generated during constructions.
10.	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 2:

PLACE OF CONSULTATION	Gambiri , Chittorgarh
DATE OF CONSULTATION	18.12.09
PROJECT NAME	Chittorgarh Bridge
PACKAGE NO.	RUSDIP/CHT/BR/01
NAME OF THE FIELD SUPERVISORS	Mukesh
NAME OF THE PERSONS	Lalu
ADDRESS	Pan shop Near Gambiri river bridge

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem due to constructional activities.
02.	Whether traffic movement affected during construction?	Only some temporary impact and which is inevitable.
03.	Is there any problem due to influx of outside people (laborer)?	No problem caused due to constructional labors.
04.	Is there any problem, if storage area is in public place?	No such problems.

05	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No emissions due to the running of concrete mixture/ hot mix plant.
07	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing systems.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 3:

PLACE OF CONSULTATION	Gambiri , Chittorgarh
DATE OF CONSULTATION	18.12.09
PROJECT NAME	Chittorgarh Bridge
PACKAGE NO.	RUSDIP/CHT/BR/01
NAME OF THE FIELD SUPERVISORS	Mukesh
NAME OF THE PERSONS	Mohan
ADDRESS	stall Near Gambiri river bridge

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust emissions due to constructional activities
02.	Whether traffic movement affected during construction?	Only few temporary interference.
03.	Is there any problem due to influx of outside people (laborer)?	No problem due to the constructional labors.
04.	Is there any problem, if storage area is in public place?	No such problems and all materials stored inside the constructional site.
05	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No emissions due to the running of concrete mixture/ hot mix plant.
07	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing drainage and water supply systems.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 4:

PLACE OF CONSULTATION	Bedach Bridge , Chittorgarh
DATE OF CONSULTATION	18.12.09
PROJECT NAME	Chittorgarh Bridge
PACKAGE NO.	RUSDIP/CHT/BR/01
NAME OF THE FIELD SUPERVISORS	Mukesh

NAME OF THE PERSONS	Bharu Singh
ADDRESS	Near Bedach Bridge

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem to the nearby area
02.	Whether traffic movement affected during construction?	No traffic movement is affected during the constructional activities
03.	Is there any problem due to influx of outside people (laborer)?	No, there is no problem due to the constructional labors.
04.	Is there any problem, if storage area is in public place?	All constructional materials stored inside premises of the constructional site. Hence there is no problem to the public places for access.
05	Is there any problem during transportation of materials?	No problem due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	There is no problem due to the usage of concrete mixture/ hot mix plant or movement of equipment like JCB.
07	Whether construction work affects local drainage system/ water supply system?	There is no such waste generated due to the constructional activities.
08	Whether movement of locals/pedestrian affected during construction?	There is no impact on the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No such impacts due to noise generated during constructional time.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 5:

PLACE OF CONSULTATION	Bedach Bridge , Chittorgarh
DATE OF CONSULTATION	18.12.09
PROJECT NAME	Chittorgarh Bridge
PACKAGE NO.	RUSDIP/CHT/BR/01
NAME OF THE FIELD SUPERVISORS	Mukesh
NAME OF THE PERSONS	Mohan Lal
ADDRESS	Near Bedach river bridge

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem to the nearby area
02.	Whether traffic movement affected during construction?	No hindrances to the existing traffic during the constructional activities
03.	Is there any problem due to influx of outside people (laborer)?	No problem due to the constructional labors.
04.	Is there any problem, if storage area is in public place?	No hindrance to the public places due to the storage of constructional materials.
05	Is there any problem during transportation of materials?	No problem due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	There is no problem due to the usage of concrete mixture/ hot mix plant or movement of equipment like JCB.
07	Whether construction work affects local drainage system/ water supply system?	No such waste generated due to the constructional activities.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal	No distinguished noise generated during

S.No.	POINTS DISCUSSED	REMARKS
	life of locals?	constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 6:

PLACE OF CONSULTATION	Bedach Bridge , Chittorgarh
DATE OF CONSULTATION	18.12.09
PROJECT NAME	Chittorgarh Bridge
PACKAGE NO.	RUSDIP/CHT/BR/01
NAME OF THE FIELD SUPERVISORS	Mukesh
NAME OF THE PERSONS	Rakesh
ADDRESS	Near Bedach river bridge

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem to the adjacent areas.
02.	Whether traffic movement affected during construction?	No hindrances to the existing traffic condition due to constructional activities
03.	Is there any problem due to influx of outside people (laborer)?	No problem due to the constructional labors.
04.	Is there any problem, if storage area is in public place?	No storage of constructional materials in the public places.
05	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No such emissions noted in the proximate areas.
07	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing systems.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 7:

PLACE OF CONSULTATION	Gambiri , Chittorgarh
DATE OF CONSULTATION	18.12.09
PROJECT NAME	Chittorgarh Bridge
PACKAGE NO.	RUSDIP/CHT/BR/01
NAME OF THE FIELD SUPERVISORS	Mukesh
NAME OF THE PERSONS	Dalibai
ADDRESS	Pakoda shop Near Gambiri river bridge

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem due to constructional activities.
02.	Whether traffic movement affected during construction?	No, there is no affect to the existing traffic conditions.
03.	Is there any problem due to influx of outside people (laborer)?	No problem due to the constructional labors.

04.	Is there any problem, if storage area is in public place?	No such problems and all materials stored inside the constructional site.
05	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No emissions due to the running of concrete mixture/ hot mix plant.
07	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing systems.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 8:

PLACE OF CONSULTATION	Gambiri , Chittorgarh
DATE OF CONSULTATION	18.12.09
PROJECT NAME	Chittorgarh Bridge
PACKAGE NO.	RUSDIP/CHT/BR/01
NAME OF THE FIELD SUPERVISORS	Mukesh
NAME OF THE PERSONS	Lalu
ADDRESS	Pan shop Near Gambiri river bridge

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust problem due to constructional activities.
02.	Whether traffic movement affected during construction?	Only some temporary impact and which is inevitable.
03.	Is there any problem due to influx of outside people (laborer)?	No problem caused due to constructional labors.
04.	Is there any problem, if storage area is in public place?	No such problems.
05	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No emissions due to the running of concrete mixture/ hot mix plant.
07	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing systems.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

Consultation 9:

PLACE OF CONSULTATION	Gambiri , Chittorgarh
DATE OF CONSULTATION	18.12.09
PROJECT NAME	Chittorgarh Bridge
PACKAGE NO.	RUSDIP/CHT/BR/01
NAME OF THE FIELD SUPERVISORS	Mukesh

NAME OF THE PERSONS	Mohan
ADDRESS	stall Near Gambiri river bridge

S.No.	POINTS DISCUSSED	REMARKS
01.	Whether dust control measures are taken up by contractor as and when required?	No dust emissions due to constructional activities
02.	Whether traffic movement affected during construction?	Only few temporary interference.
03.	Is there any problem due to influx of outside people (laborer)?	No problem due to the constructional labors.
04.	Is there any problem, if storage area is in public place?	No such problems and all materials stored inside the constructional site.
05	Is there any problem during transportation of materials?	No problems noticed due to the transportation of constructional materials.
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No emissions due to the running of concrete mixture/ hot mix plant.
07	Whether construction work affects local drainage system/ water supply system?	No such impacts to the existing drainage and water supply systems.
08	Whether movement of locals/pedestrian affected during construction?	No hindrances caused to the movement of locals/pedestrians.
09	Whether generated noise affects the normal life of locals?	No distinguished noise generated during constructions.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory

SAWAI MADHOPUR

PLACE OF CONSULTATION	Near ROB
DATE OF CONSULTATION	11.12.09
PROJECT NAME	ROB
PACKAGE NO.	RUSDIP/TR-02/SMD/BR/01
NAME OF THE FIELD SUPERVISORS	Rajesh Kumar
NAME OF THE PERSONS	Saurhabuddin, Kumkum , Purshotam
ADDRESS	Kherda Railway Crossing

S.No.	POINTS DISCUSSED	PUBLIC OPINION
01.	Whether dust control measures are taken up by contractor as and when required?	Yes Sometime they have done
02.	Whether traffic movement affected during construction?	Yes traffic movement affected during the construction
03.	Is there any problem due to influx of outside people (laborer)?	Don't Know
04.	Is there any problem, if storage area is in public place?	Yes
05	Is there any problem during transportation of materials?	Yes Traffic problem, Dust Problem
06.	Is there any problem due to the running of concrete mixture/ hot mix plant or movement of equipment like JCB?	No
07	Whether construction work affects local drainage system/ water supply system?	Not much affected
08	Whether movement of locals/pedestrian affected during construction?	Yes pedestrian affected during construction.
09	Whether generated noise affects the normal life of locals?	Some noise affects the normal life.
10	Overall opinion on construction (Excellent/ Satisfactory/ Below satisfaction/ Poor)	Satisfactory.

PHOTO ILLUSTRATION



Photo 1: Safety arrangement – Waste water Package at Tuleda Road Alwar



Photo 2: Barricading near excavated area for waste water package at Alwar



Photo 3: Column casting - utilisation of PPE like helmet, safety belt noted at Alwar



Photo 4: Work is going on at Alwar bridge site



Photo 5: Bridge construction in progress at Sawai Madhopur



Photo 6: Testing of Sewer line at Jaisalmer



Photo 7: Building construction at landfill site under Jaisalmer



Photo 8: Drainage work under progress at Sikar



Photo 9: Work in progress at Topkhana ESR at Jhalawar



Photo 10: Work is going on at Balaji ki chatri ESR site- Jhalawar



Photo 11: Pipe laying Works Near NH 12 at Jhalawar



Photo 12: Work in progress at Chittorgarh Bedach bridge- use of PPE noted



Photo 13: Consultation with worker at Jhalawar



Photo 14: Rising main road crossing in progress at Jhalawar



Photo 15: Constructional works under progress at Balaji - ki Chattri ESR at Jhalawar



Photo 16: Public consultation at Dhanwara ESR at Jhalawar



Photo 17: Proper storage of material at Jaisalmer



Photo 18: Official consultation on safeguard issues going on at Sawai Madhopur PIU office



Photo 19: Work under progress for Sikar Sewerage



Photo 20: Pipe line testing going on at Alwar



Photo 21: Integrating Testing – Alwar bridge



Photo 22: Laying of Pipe Line at Alwar - safety caution tape noted



Photo 23: Pier construction at Gambhiri river Bridge at Chittorgarh



Photo 24: Road diversion work going at baran for construction of bridge