Social Monitoring Report

2nd Semestral Report January 2016

Period: July 2015 - December 2015

IND: Bihar Urban Development Investment Program (Tranche 1)

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Bihar Urban Infrastructure Development Corporation Ltd



Bihar Urban Development Investment Program TRANCHE 1 ADB Loan 2861-IND

5th SEMI ANNUAL SOCIAL SAFEGUARDS MONITORING REPORT

(Period July to December 2015)

January 2016

TABLE OF CONTENTS

Executive Summary	i
Background of the Report and Project Description	3
Appendix 1: Format for Public Consultations & Focus Group Discussions	16
Appendix 2: Sample Grievance Registration Form	18
Appendix 3: Status of NOC	19
Appendix 3.1: Copy of NoCs received	20
APPENDIX 4: OFFICE order pertaining to formation of GRM	31
APPENDIX 5: Entitlement Matrix	33
APPENDIX 6: Socio Economic profile	36
APPENDIX 7: Summary of Community Consultations	37
APPENDIX 8: Sample Monitoring TEMPLATE	40
APPENDIX 9. Detailed Measurement Survey	41

ABBREVATIONS

ADB Asian Development Bank

AP Affected Person BD Bid Document

BMC Bhagalpur Municipal Corporation

BUDIP Bihar Urban Development Investment Program
BUIDCo Bihar Urban Infrastructure Development Corporation

CLC City Level Committee

DB Design-Build

DBO Design-Build-Operate
DPR Detailed Project Report

DSC Design and Supervision Consultant

EARF Environment and Social Assessment Review Framework

EIA Environmental Impact Assessment

ESMC Environment and Social Management Coordinator

FAM Facility Administration Manual FFA Framework Financing Agreement

FGD Focus Group Discussion
GAP Gender Action Plan
GOB Government of Bihar
GOI Government of India
GRM Grievance Redress System
GRS Grievance Redress Cell

IEE Initial Environmental Examination
IPF Indigenous People Framework
MFF Multi-tranche Financing Facility
NGO Non-Governmental Organization

NOC Non-objection Certificate
O&M Operation and Maintenance
OHSR Over Head Service Reservoir

OHT Over Head Tank
PD Project Director

PIU Project Implementation Unit
PMC Program Management Consultant
PMU Program Management Unit

PPMS Project Performance Monitoring System
PPTA Project Preparatory Technical Assistance

PSC Project Steering Committee

ROW Right of Way

RF Resettlement Framework

SAR Sub-project Appraisal Report (feasibility study)

SC Steering Committee
STP Sewage Treatment Plant

TBU Tilkamanjhi Bhagalpur University

TC Town Committee

UDHD Urban Development and Housing Department

ULB Urban Local Body
WTP Water Treatment Plant

Executive Summary

A. Introduction

- 1. This monitoring report concerns the social safeguards of the Bihar Urban Development Investment Program (BUDIP). BUDIP is financed under a multi-tranche financing facility (MFF) with separate loans for separate tranches. To date one loan is effective, Loan 2861-IND, financing Tranche 1. Loans for other tranches have not yet been concluded.
- 2. The objective of BUDIP is to contribute to the "sustainable economic growth through improved quality of urban life". It is to improve the urban environment and living conditions in targeted urban areas in Bihar by (i) improving and expanding urban infrastructure and services in four towns; and (ii) strengthening urban institutional, management and financial capacity of the urban local bodies (ULBs). The investment program will improve and expand the water infrastructure in Bhagalpur and Gaya as well as development of sewerage system in Gaya.
- 3.BUDIP will also assist the urban local bodies (ULB) of the two towns in bringing about operational discipline and structure, which will ensure sustainable O&M.
- 4. This report includes the monitoring of implementation of social safeguards in tranche 1 for which loans have been effectuated.

B. Tranche 1

1.Tranche1 comprises the Bhagalpur Water Supply Project Phase 1 (BWSP1). The design-build-operate (DBO) contract has been awarded. The contractor has been mobilised since October 2014. 2.The proposed Subproject components for BWSP1 include (i) rehabilitation of the Barari Water Works and Refurbishment of WTP, (ii) Construction of New Water Storage Reservoir (19 OHSRs), (iii) rehabilitation of one OHT, (iv) laying of 460 kms. of clear water distribution mains (v) metered household connections (approximately 68,000 connections uptil 2019) covering all the DMAs and (vi) customer care center (1 center for every 10,000 connections including 1 central control center)¹. 3.The contractor, during the first year, has prepared a Service Improvement Plan (SIP) and designs for the distribution network, overhead tanks and renovation of the existing water treatment plant (WTP).The revised SIP submitted by the contractor has been approved. The Contractor has also submitted the SIP work part 2 which is in the process of approval. 3.5 years are allowed for construction. As per the approved plan, the civil implementation work is scheduled to commence in January 2016.

4.The initial social and resettlement impact assessment for BWSP1 was undertaken based on the SAR and DPR prepared earlier. The social safeguard categorization for this subproject is category B. 5.Detailed Measurement Surveys (DMS) were conducted for 3 OHSR sites and 50 kms. of distribution mains alignments in Nov 2015. For the rest of the stretches and components, the contractor will submit a work plan. Once the submitted work plan is approved, DMS will be carried out. The first year of the implementation work comprises construction of three OHSRs and laying of 50 kms. of distribution pipelines. DMS has been conducted for the phase 1 of the civil works.

¹ Prior to approval of SIP, the number of OHSRs to be constructed was 16 whereas 326 km of distribution mains were to be laid and approximately 52,000 new houses were e to be equipped with metered service connections.

C. Scope of impacts Tranche 1

- 1.Efforts have been made in detailed design to avoid or minimize resettlement impact through careful design of the major portion of pipe alignments for water supply distribution through available government land and existing public road right of way (RoW), avoidance of land acquisition and selection of sites and alignment alternatives with none / minimal resettlement impact. The scope of land acquisition and resettlement has been ascertained through field visits to the identified subproject sites and alignments. All land required for subproject components in Bhagalpur has been identified. No private land acquisition is required.
- 2.The contractor, during the first year, has prepared a Service Improvement Plan (SIP) and designs for the distribution network, overhead tanks and renovation of the existing water treatment plant (WTP). The revised SIP submitted by the contractor has been approved.
- 3. With a view to identifying and assessing the IR impacts due to the proposed civil implementation works, comprising construction of 3 OHSRs and laying of 50 km of distribution lines, to be taken up in year 1 of implementation, a DMS was conducted in November 2015. Only permanent relocation impacts were identified. Identified permanent impacts include loss of (i) private residential structure (facing 100% loss) and (ii) cattle shade. Laying of distribution mains (50 Kms.) is not expected to lead to any income loss to any temporary hawker, vendor etc.

D. Compensation, Rehabilitation and Monitoring - Tranche 1

- 1.Resettlement Framework (RF) for BUDIP which was initially submitted to PMU / BUIDCo, on September 22, 2014, was revised further to take account of the changes brought about by New Land Acquisition Act 2013. The revised draft final RF, was submitted to PMU and ADB on October 09, 2014.
- 2.Affected persons, if any, shall be compensated incongruence with the provisions made in the Entitlement Matrix (EM).
- 3. The social safeguards plan, gender action plan and other required activities like payment of compensation for the affected assets, allowances, loss of incomes etc. to the entitled persons will be implemented as soon as the civil implementation works gets underway as per the impending schedule.

Background of the Report and Project Description

A. Scope of this Monitoring Report

1. This Semi Annual Safeguards Monitoring Report has been prepared for the period July – December 2015. The report concerns the entire BUDIP, i.e. all tranches and loans under the program. The report includes:

- i. Monitoring of **implementation** of social safeguards in tranches for which loans have been effectuated (at this moment, only Tranche 1 / Loan 2861-IND);
- ii. Status of **preparation** of social safeguards plans for other tranches.

B. One Program, Multiple Loans

2.In 2011 the Government of Bihar (GoB), with support of the Asian Development Bank (ADB), prepared a road map for improved quality of urban life in Bihar, covering 24 urban economic centres—and including a wide scope of urban infrastructure such as water supply, sewerage, storm water drainage, solid waste management and urban roads and slum improvements. ADB had initially agreed to co-finance implementation of certain components of the road map in Bihar's four larger towns (other than the state capital Patna), i.e. in Bhagalpur, Darbhanga, Gaya and Muzaffarpur, but later on decided to forgo the Muzaffarpur and Darbhanga projects. The project will be implemented using a multitranche financing facility.

3.On 31 January 2012, the Government of India (GoI) and the ADB concluded a framework financing agreement for a multi-tranche financing facility (MFF) for the Bihar Urban Development Investment Program (BUDIP). On 29 March 2012 ADB approved the MFF and on 13 April 2012 it approved the loan for the first tranche under the MFF. On 25 March 2013, the Loan Agreement between GoI and ADB for Tranche 1 of BUDIP (Loan 2861-IND) was signed. The loan became effective on 6 June 2013.

4.The overall BUDIP undertaking is scheduled over a nine year period. The first loan 2861-IND is a 5 year period. Loan closing date is 30 June 2017. The total value of BUDIP is \$286 million. The MFF is for a loan amount not exceeding \$200 million. Loan 2861-IND is for an amount of \$65 million.

5.BUDIP aims at improving the urban environment and living conditions in the targeted urban areas by (i) expanding urban infrastructure and services in urban areas; and (ii) strengthening urban institutional management system including the financing capacity the urban local bodies (ULBs).

6. The project will be implemented in two urban areas: Bhagalpur, and Gaya in the state of Bihar. The improvement in urban infrastructure will include rehabilitation, improvement, and expansion of: (i) water supplies; and (ii) sewerage and sanitation.

7.Bhagalpur and Gaya are the two largest towns with the highest economic growth potential in Bihar after the state capital, Patna. Despite being the economic centres of Bihar, the urban service levels in the towns are unable to achieve not only the national goals but also many of the national averages in India. These towns have not been able to sustain the water supply and sewerage services because the infrastructure is not adequate in size and condition. This was mainly attributed to inadequate new investment, and operations and maintenance (O&M). The investment program will improve and expand the water and sewerage infrastructure in the two towns. It will also assist the urban local

bodies (ULB) of the two towns in bringing about operational discipline and structure, which will ensure sustainable O&M.

8. The impact of BUDIP will be to provide improved access to water supply and sanitation facilities by the urban population of the relatively poor and weak capacity state of Bihar. The expected outcome will be access to better quality and sustainable urban water supply and sewerage services for people, especially vulnerable households, in the two towns covered under the program.

9. The five outputs of the BUDIP are:

SI. No.	Output	Description
1	Improved water supply infrastructure in two towns.	To address inadequacy in new investment, as an immediate solution, new raw water intakes, clear water pumping mains, water treatment plants, OHSR, distribution networks and water meters will be developed and procured in Bhagalpur and Gaya .
	Improved sewerage / wastewater infrastructure in one town.	To address inadequacy in new investment, new house connections, sewer networks, pumping stations, sewage treatment plants, maintenance equipment will be developed and procured in Gaya .
3	O&M of assets created by subprojects improved	To address deficiency in O&M staff number and skills, all major infrastructures will be constructed and operated by DBO contractors, which will field additional O&M staff and provide onthe-job training to ULB staff for at least 5 years. Also, permanent ULB staff under the municipal civil servant system will take technical courses in India to upgrade their qualifications for asset operations.
4	Urban service delivery management improved	To introduce metered user charges, computerized billing and reserve accounts for water supply and sewerage, the program will prepare long-term business plans, user charge plans and proposals for creation of water and sewerage accounts for consideration and adoption by the ULBs.
5	Project management, implementation skills and transparency improved	To enhance the executing agency's accountability to the financers and the people of Bihar, and to strengthen the implementing agency's contract management and subproject formulation, teams of consultants will provide the executing and implementing agencies with support and on-the-job training through day-to-day collaboration.

10. Location of the project towns are shown hereunder in **Figure 1**.



Figure 1 Bhagalpur and Gaya towns in Bihar

C. Institutional Arrangement

- 11.BUDIP is being carried out by the Government of Bihar (GoB) acting through the State's Urban Development and Housing Department (UDHD) and its executing-cumimplementing agency (EA and IA), is the Bihar Urban Infrastructure Development Corporation Ltd (BUIDCo).
- 12. The Program Management Unit (PMU), established within BUIDCo, is the executing arm. At each of the two towns there will be a Project Implementation Unit (PIU) reporting to the PMU. PMU and PIU are assisted by PMC and DSC.
- 13. While it was initially envisaged that a third party NGO will be engaged to assist the PIU in implementation of the temporary resettlement of affected persons, ADB advised that the implementation be done jointly by DSC, PIU, PMC and PMU. DSC to propose the arrangements it intends to make to oversee implementation of the RP.
- 14. The safeguards, gender and monitoring responsibilities are summarized in **Table 1**.

Table 1 Safeguards, Gender and Social Monitoring Team Structure and Responsibilities 2

Organisation	Position	Name	E-mail	Contact Number
	Program Director	Mr. Narendra Kumar Singh	md@buidco.in, mdbuidco@gmail.com	8544413101
PMU	APD (Incharge)	Mr. S.K. Karambir	apdinpmu.buidco@gmail.com	8544413140
	ESMC	Dr. Lata Chaudhary	esmcinpmu.buidco@gmail.com	8544413136
РМС	Social Expert	Mr. Mohit Kumar	pmc.budip.social@gmail.com	7561903616
	APD	Mr. S.K. Karambir	pdbwsp.buidco@gmail.com	8544413140
PIU	Social Safeguard and Environment Officer	Mr. Ajit	safeguardinpiu.buidco@gmail.com ajit2007kvkkb@gmail.com	9709424203
	Public Relations Rajeev Dwivedi proinpmu.buidco@gmail.co Officer		proinpmu.buidco@gmail.com	8544413137
DSC	Social and PR Mr. Prabal Expert Pratap Singh		stcbhagalpur@gmail.com prabal.singh@gmail.com	8877547751
Contractor	Safeguard Supervisor	Mr. Alam	rukhsar.alam@utility.esselgroup.com 76	

Source: Facility Administration Manual (FAM), February 2012, page 33.

15. As per FAM, reporting on social safeguards monitoring is to be done semi-annually.

D. Land availability

- 16. Works on the existing WTP will be carried out within the existing water works compound. The distribution system is within the rights-of-way (ROW) of the public roads network, while service connections are within customers' premises. Only for the OHTs land has to be made available.
- 17. The aim of minimizing land acquisition and resettlement impacts was included in the design of the BWSP1. All land required for the subproject components have been identified. Parcel of land belonging to entities other than government are identified for construction of OHSR (ID- 1/3, 1/3 A, 5/1 and 5/4) at four different locations. The parcel of land identified for the construction of the OHSR (ID-5/1) falls within the premises of the Sarbajanik Thakurbari and belongs to a temple trust. Additionally, the parcel of land identified for the construction of the OHSR (ID-5/4) falls within the premises of the Qwali Maidan and belongs to Urs committee. The parcel of land identified for the construction of two OHSRS (ID-1/3 and 1/3 A) belong to Mahashay Deodhi. Parcel of land identified for

² Adjusted with the merger of PMU and Central PIU into one PMU at central level

the remaining project components are government and / or municipal land. Requisite NoC from concerned departments / authorities have also been obtained. All parcel of land has been handed over to the contractor to carry out civil implementation works without any hassle. Please refer to Appendix 3 for the status of NOC received till date and Appendix 3.1 for Copy of NOCs.

E. Scope of Impacts: BWSP1

18. Two impacts of permanent nature on squatters – one kutcha residential structure and the other a kutcha cattle shed have been identified at the proposed OHSR (ID - 4/1) site at Barari. However, no temporary impacts on non-titled persons, hawkers, vendors etc. were found during DMS conducted in November 2015. Please refer to Appendix 9 for the detailed DMS report.

19. Table 2 presents a summary of the resettlement impacts and mitigation measures as laid down in the draft Resettlement Plan for BWSP1.³

Table: 2 Summary of Identified Impacts and the Mitigation Actions for BWSP1

Scope of Works	Unit	Location	Resettlement	Impacts	Mitigation		
Scope o		Poc	P ⁴	T ⁵	Temporary disruption of livelihood	Impacts on Vulnerable APs	Any other loss not identified
Existing Water Treatment Plant rehabilitation	3 WTP	Barari Water Works	None	None	NA	NA	NA
Mechanical, Electrical, and Instrumentation works	Inside the 3 WTPs	Barari Water Works	None	None	NA	NA	NA
Distribution System: renovation, rehabilitation and new construction	460 km.	Urban area within the current municipal boundary of Bhagalpur Municipal Corporation (BMC)	None	8145	To be compe nsated as per the EM	Special priorities will be accorded to such Aps. Additional benefits will be provided as mentioned in the EM	Unanticipated involuntary resettlement impacts will be documented and mitigated as mentioned in the EM.

³ The total number of affected persons (APs) was estimated for temporary impact to be caused during refurbishing and laying of distribution network of approximate 326km under the subproject. Three transect walks were conducted in Bhagalpur during PPTA study in 2011, which was updated by CDTA team in August 2013. Transect walks were conducted in three 300-meter sections namely DN Singh Road, Swami Vivekananda Path and Barari (road in front of Mt. Carmel School). The findings were extrapolated to arrive at the estimate of temporary impacts. A total of 8,145 persons were estimated to be impacted temporarily as they may witness temporary disruptions in their livelihood activities. However, the DMS for 3 OHSR and 50 Kms. of distribution mains conducted in November 2015 revealed that there won't be any temporary disruption in carrying out their livelihood activities.

⁴ P- Permanent

⁵ T- Temporary

Scope of Works	Unit	Location	Resettlement		Mitigation Measures		
Scope	5	Loca Temporary disruption of livelihood Impacts on Vulnerable APs		Any other loss not identified			
Over Head Service Reservoirs	19	At 19 different locations in the town (BMC)	2	None	NA	NA	NA
Metered Customer Service Connections	68,000 (approx.)	In the resident neighbourho od	None	None	NA	NA	NA

F. Affected persons

20. The extent and magnitude of loss has been ascertained through DMS conducted in November 2015. One woman headed household with the house hold size of 7 persons has squatted on the parcel of land identified for the construction of OHSR and other components. The household is a vulnerable household meeting 3 or more vulnerability criteria applicable to local context. To facilitate civil implementation works, the house will be dismantled and therefore the family faces the threat of permanent eviction. Meaningful consultations were held multiple times with the affected family. The family has agreed to evict and move to another location. The family will be provided assistance and compensated as per the provisions laid down in the EM prepared in accordance with government of India and ADB policies. Please refer to Appendix 5 for EM. The Summary of Resettlement Impacts is presented in Table 3 and the Socio Economic Profile of affected persons (AP) facing permanent relocation impacts and / or structure loss is presented in Appendix 6.

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⁶ The PPTA Report for BUDIP identified the following vulnerability criteria in the context of Bihar: (1) households belonging to most backward communities; (2) head of household is a woman; (3) head of household is illiterate; (4) head of household is a daily wage labourer, (5) below poverty line household; and (6) household lives in a kutcha house.

Table 3: Summary of Resettlement Impacts

SI. No.	Details	Affected persons / land area (0-50 km. stretch)	Remarks
1	Permanent land acquisition	None	
2	Temporary Land Acquisition	None	
3	Permanent relocation impact (non-titleholders)	1 households 7 persons	Squatter at Barari OHSR site; vulnerable household.
4	Permanent impact: structure loss	1 Residential Kutcha House 1 Cattle shed	
4a	Total loss of structure (100%)	1 residential structure	Women headed house hold (Ms. Asha Devi ⁷)
4b	Partial loss of structure (40%)	1 cattle shed	Mr. D.N. Mandal
5	Temporarily Affected Persons	None ⁸	
5a	Titled affected persons (temporarily affected)	None	
5b	Non-Titled affected persons (temporarily affected hawkers and vendors)	None	
5c	Non-Titled affected persons (temporarily affected <i>kutcha</i> residential structures)	0	Assessed on the basis of DMS
6	Potential temporary impacts to hawkers and vendors	None	
6a	Potential temporary impact: income loss	None	
6b	Potential temporary impact to BPL and FHH	None	
5.	Permanent income loss	None	
6.	Affected IP	None	-

21.As per Draft Resettlement Framework, affected persons will be provided 30 days advance notice to ensure no or minimal disruption in livelihood. If required, they will also be assisted to temporarily shift for continued economic activity. For example, they will be

⁷ She is a SC Widow Woman who has squatted on the vacant Housing Board land by constructing a kutcha house. She and her family has been residing there for more than seven years.

⁸ In the draft RP, the estimation of the temporary impact was done through extrapolation for the entire stretch. The positive change in the impact is because of the efforts made in the detailed design to avoid or minimize resettlement impact through careful design of the major portion of pipe alignments for water supply distribution through available government land and existing public road right of way (RoW), avoidance of land acquisition and selection of sites and alignment alternatives with none / minimal resettlement impact. Measures to avoid and minimize private land acquisition and involuntary resettlement impacts include identification of government land for construction of reservoirs, and for all proposed new / refurbished facilities, night work in congested commercial areas, traffic management during pipe laying work, ensuring access to shops and businesses by providing pedestrian access through planks, assistance to mobile hawkers and vendors and those with moveable, temporary structures to shift to (and back from) nearby locations where they can continue with their economic activities, is proposed. Where excavation close to properties / residences cannot be avoided, simple mitigation measures such as provision of planks are proposed as per available guidelines in EMP and best practice. Timely information will be provided to the public about potential negative impacts and mitigation measures, including grievance redress procedures and time taken for the same, prior to start of project implementation.

assisted to temporarily shift to the other side of the road where there is no construction. Ensuring there is no income or access loss during subproject construction is the responsibility of the Contractor. Consistent with the environmental assessment, the Contractor will ensure:(i) that space is left for access between mounds of soil;(ii) walkways and metal sheets provided to maintain access across trenches for people and vehicles where required; (iii) increased work force is available to finish work in areas with impacts on access, and timing of works in such areas that it reduces disruption during business hours and (iv) phased construction schedule is followed and work undertaken on one segment at a time and one side of the road at a time. The construction period will be minimized and is estimated to be less than 30 days persecution of work.

22. Should construction activities result in unavoidable livelihood disruption, compensation for lost income or a transitional allowance for the period of disruption, whichever is greater, will be provided. Vulnerable affected persons will be given priority in project construction employment. Highly vulnerable affected persons such as child labourers and woman-headed households shall be identified and given the opportunity to enrol in literacy and/or numeracy camps (14 day camps), following a demand survey by the implementing DSC to determine the proportion willing to enrol.

23. For OHT sites proposed within school compounds, care must be taken to ensure that the present use of the major portion of such land (as playground) is not affected. In addition, each of the government schools will be provided water connections, and the primary and middle school presently lacking toilet facilities will be provided separately for boys and girls. These measures will lead to further positive outcomes for the subproject.

G. Compensation and Rehabilitation

24. The social safeguards plan and other required activities will be implemented only after the approval of the updated RP by the ADB on the basis of civil works designed by contractor per year. This includes survey and public consultation of remaining stretches and components, payment of the compensation of affected assets, allowances, loss of incomes, etc. to the entitled persons. It is expected that monitoring of social safeguards will commence in the first quarter of 2016.

25. Land acquisition and resettlement impacts will be compensated in accordance with the entitlement matrix. Loss of assets will be at replacement cost. A Valuation Committee (VC) will be constituted comprising Land Acquisition/Revenue Officers, Accounts Officers of the Collectorate, PIU representative, APs, and nongovernment organizations (NGO) to determine replacement values.

26. Compensation and assistance to APs must be made prior to possession of land/assets and prior to the award of civil works contracts.⁹

⁹The APs will hand over land and properties acquired free from all encumbrances such as mortgage, debt, etc. after compensation. However, in case there are loans on acquired land and properties, such amounts will be deducted from the total compensation. The acquired land and properties shall vest in the Competent Authority paying compensation for such lands/properties. If the Competent Authority fails to pay decided compensation to APs within a year after the date of notification,

additional amount by way of interest (12%) will apply on final compensation payable to each AP, unless and except in cases where the AP has approached the judiciary for grievance redress.

H. Income Restoration

27.Long-term income loss is not anticipated. However, if a subproject results in income loss, income restoration schemes will be designed in consultation with affected persons. The strategy for income restoration will be prepared prior to land acquisition. Based on the information collected from the census and the socio-economic surveys, income restoration strategies will be framed and activities planned. The PMU and PIU will consider the resource base of affected persons and their socio-economic characteristics and preferences to develop appropriate income restoration schemes.

28. The objective of income restoration is to ensure that each affected person will have at least the same or improved income after the subproject. DSC in consultation with PMC will identify the number of eligible affected persons based on the 100% census of the affected persons and will conduct a training needs assessment in consultation with affected persons. DSC in consultation with PMC will examine local employment opportunities and produce a list of possible income restoration options. Suitable trainers or local resources will be identified by the local DSC in consultation with local training institutes.

29.The project will provide short-term income restoration activities intended to restore affected persons' income in the period immediately before and after relocation focusing on relocation, and providing short-term allowances such as (i) transitional allowance; and (ii) shifting assistance. Medium-term income restoration activities such as provision of longer-term training will also be provided. Longer-term training programs will be developed based on the degree of disruption to livelihood activities. These will be derived from detailed socio-economic survey information, conducted as a part of the resettlement plan. The time frame will be decided based on training to be provided, and will also be outlined in the resettlement plan. The resettlement plan budget will reflect the cost of providing training. The PIU will also facilitate affected persons' access to Government schemes that could help them restore income and livelihood.

30. Key steps to be undertaken in livelihood skills training by the RP implementing agency for vulnerable households are:

- Identification of affected, vulnerable households through the census and socio economic survey of APs;
- ii. Identification of potential trainees and training needs assessment for vulnerable households, which would require a detailed survey and assessment of the literacy, educational level, and/or skill sets of one member of the household nominated for skill training. The needs assessment will also document income from various sources, assets, resources, and coping strategies currently used by the household. The strategy will improve or maximize returns from present occupation of the principal earning member or introduce a new or supplementary occupation aimed at achieving the right mix of activities in order to enable the household to improve or maintain its living standards. Baseline details will be documented in order for post-training impact assessment.
- iii. Identification of requirements for credit support and assistance in accessing employment.
- iv. Identification of local trainers, resource persons or training institutes by DSC. A

- maximum time frame of three months is planned for training
- v. Internal monitoring of training and submission of progress reports
- vi. Post-training impact assessment will be conducted by an external agency engaged for external monitoring, one year after project implementation. Indicators would be developed during detailed design stage.

31.In addition to livelihoods skills training, the following special measures to help vulnerable affected persons improve their living standards/skills to improve their quality of life, will be provided:

- In case of total loss of business, apart from skills training for vulnerable households, assistance for purchase of income generating assets (maximum Rs 30,000 / per household) will be provided.
- ii. Vulnerable households will be given priority in project construction employment.
- iii. In recognition of the fact that illiterate women, men and child labour comprise a fairly large proportion of temporarily affected persons10 the investment program will provide them an opportunity to attend a literacy and/or numeracy camp, if the proposed demand survey for a camp reveals a felt need among the target group.

I. Assistance for Temporary Impacts

32. Sub-projects requiring work on right-of-way such as rehabilitation or construction of water supply networks are not expected to require land acquisition nor affect permanent structures. No impact on temporary income loss has been identified during DMS conducted for the 50 km. stretch. However, temporary loss of land and common resources is expected to be minimal for the rest of the stretches and components. The same will be ascertained in due course. Should there be temporary losses, APs will be provided with:

- i. Rent for the period of occupation for legal titleholders.
- ii. Compensation for assets lost at replacement value/cost, including trees and crop loss in accordance with the entitlement matrix
- iii. Restoration of land to previous or better quality.
- iv. Restoration or replacement of common resources.

33.APs will be provided with:-

i 20 days' advance notice

- i. 30 days' advance notice regarding construction activities, including duration and type of disruption.
- ii. Contractor's actions to ensure there is no income/access loss consistent with the initial environmental examination. This includes: leaving spaces for access between mounds of soil, providing walkways and metal sheets to maintain access across trenches for people and vehicles where required, increased workforces to finish work in areas with impacts on access, timing of works to reduce disruption during business hours, phased construction schedule and working one segment at a time and one side of the road at a time.
- iii. Assistance to mobile vendors/hawkers to temporarily shift for continued economic activity. For example assistance to shift to the other side of the road where there is no construction or Rs. 1,000 as one time cash shifting assistance.
- iv. For construction activities involving unavoidable livelihood disruption, compensation for lost income or a transitional allowance for the period of disruption

¹⁰Based on results of transect walks in Bhagalpur, 20% of temporarily affected persons comprise illiterate women, child labour and below poverty line households.

whichever is greater.

34. For construction activities involving unavoidable livelihood disruption, compensation for lost income or a transitional allowance for the period of disruption, whichever is greater, is to be given.

J. Relocation

35.In accordance with ADB's SPS, should there be any physical displacement or resettlement, the existing social and cultural institutions of affected persons (resettled populations) and host populations will be supported to the maximum extent possible. Resettled population will be economically and socially integrated into host communities so that adverse impacts on the latter are minimized. Concerns of affected persons and host communities will be understood through consultations and systematically recorded and addressed in the resettlement plan. In addition, benefits of the project will be extended to host communities to ensure integration; the resettlement plan will explain how integration with host populations will be achieved.

K. Project Information Disclosure, Public Participation and Consultation

36.The BWSP1 subproject is being disclosed in a series of Community Orientation Meetings, being conducted monthly since December 2014. Till date, out of a total of 462 persons who were oriented and given first-hand information about the project, 379 including 130 women were from the local community. It is significant to note that the list of the participants included 22 councillors and 61 officials. In addition, the project is receiving regular attention in the local printed press. Please refer to Appendix 7 for Summary of Community Consultations held so far.

37. Detailed discussions were held with municipal officials, owners and users of sites where subproject facilities are proposed, academicians and environmental specialists based in Bhagalpur University, fishermen in Bhagalpur and potentials beneficiaries (residents). Meetings and individual interviews of stakeholders, particularly potentially temporarily affected persons, were held, and transect walks and interviews conducted to determine the potential impacts of subproject construction to prepare the sample subproject Resettlement Plan. Focus Group Discussions held with residents and/or users in and around each of the identified OHT sites.

38. The detailed consultations with potential beneficiaries and affected persons revealed that there is a great need for the water supply project in Bhagalpur, and consultations helped in selection and finalization of subproject sites in Bhagalpur.

39. The draft Resettlement Framework and draft Resettlement Plan in local language were discussed in a city-wide stakeholder consultation workshop and the documents were disclosed by placing them in the Municipal Office, Revenue Department and at Bihar Rajya Jal Parishad (BRJP). This will also be placed in the PIU office after its establishment. The Resettlement Framework and Resettlement Plan do include a strategy for continued consultation at different stages of Resettlement Plan implementation. The Format for Public Consultation & Focus Group Discussions is appended as Appendix 1.

40.Information shall continue to be disseminated to affected persons and beneficiaries through various media. PMU/PIU, with assistance of PMC, will undertake consultations, information dissemination, and disclosure. The finalized Resettlement Plan will also be disclosed in websites of ADB, BUIDCo, State Government, local government, PMU and PIU.

L. GRIEVANCE REDRESS MECHANISM (GRM)

41. A common Grievance Redress Mechanism (GRM) for social and environmental complaints will be in place. Each Resettlement Plan, Indigenous Peoples Plan (IPP) (if applicable), and Initial Environmental Examination (IEE) and/or Environmental Impact Assessment (EIA) will follow the GRM described below, which is developed in consultation with stakeholders, including affected persons and NGOs. The GRM will provide an accessible platform for receiving and facilitating resolution of affected persons' grievances related to the project. Grievances and/or suggestions of affected persons can be dropped in suggestion boxes set up for the project in key locations including subproject sites, or conveyed through phone or email. The Social and PR Expert of the DSC with inputs from PMC PR Specialist will be responsible for conducting periodic community meetings with affected communities to understand their concerns and help them through the process of grievance redressal (including translation from local language, recording and registering grievances of non-literate affected persons and explaining the process of redressing grievances).

42. In case of grievances that are immediate and urgent in the perception of the complainant, the contractor, and supervision personnel from PIU will try to successfully resolve them. Grievances and/or suggestions of affected persons can be dropped in suggestion boxes or conveyed through phone or mail The Social and PR Expert of the DSC with inputs from PMC PR Specialist will be responsible for conducting periodic community meetings with affected communities to understand their concerns and help them through the process of grievance redressal (including translation from local language, recording and registering grievances of non-literate affected persons; and explaining the process of grievance redressal). The grievance redress mechanism and procedure is depicted in Figure 2 below. Appendix 2 shows the sample Grievance Registration Form and Action taken report.

43. On 27.05.2015 the UDHD has formally approved the setting up of the Grievance Redressal system in Bhagalpur vide letter no.-1615. Please refer to Appendix 4 for details.

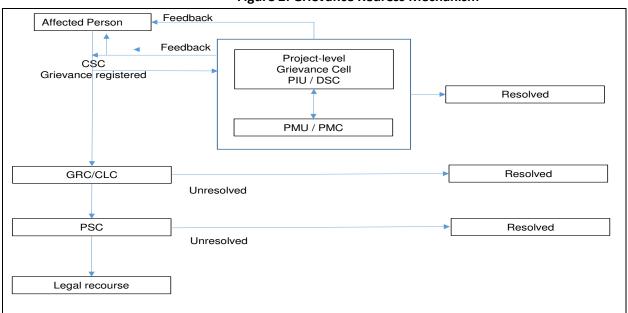


Figure 2: Grievance Redress Mechanism

CLC = City Level Committee, GRC = Grievance Redress Mechanism, PIU = Project Implementation Unit, PMU = Project Management Unit, PSC = Project Steering Committee.

44. The process of constituting GRC has been initiated, which will be completed before commencement of physical activity.

M. Institutional Arrangements

45. There has been a change in the institutional arrangement at Urban Development and Housing Department (UDHD) of Government of Bihar, which is the Executing Agency (EA) for the project. The PMU of BUDIP under UDHD has been merged with the central PIU under BUIDCo (Implementing Agency, IA) for effective execution and implementation of managing the social safeguards issues in the projects till date. The PMU has an Environment and Social Management Coordinator (ESMC) for execution and coordination of safeguard. PIU field offices shall be set up in each project town to manage the implementation of subprojects before physical progress. In addition, City Level Committees (CLC) will be setup in each project town to periodically review subproject progress before the start of civil work.

46.The ESMC, PMU is being assisted by the PMC for the preparation of IEE/EIA/Resettlement Plan/IPP reports and providing advice on policy reforms. The PMU is endorsing the subproject IEEs/EIAs and Resettlement Plans/IPPs prepared by the PMC. ESMC is co-ordinating with national and state agencies to resolve inter-departmental issues, if any. ESMC is also monitoring physical and non-physical activities under the investment plan. Also, monitoring the implementation of safeguards plans and guiding PIU as and when necessary.

47.The PMC has an Environment Specialist and Resettlement and Gender Specialist who are responsible for the preparation of IEE/EIA and Resettlement Plan/IPP and monitoring reports respectively. The PMC Specialists are reviewing and finalizing all reports in consultation with the ESMC. The PMC Specialists are also submitting periodic monitoring and implementation reports to PMU, who is taking follow-up actions, where necessary.

N. Monitoring Results – Findings

48.As there is no implementation of social safeguard measures yet, actual monitoring is not being done yet. A sample monitoring template is appended as Appendix 8.

O. Follow up Actions, Recommendations and Disclosure

49. Since no work has so far been taken up by the contractor on the ground a Consultation and Participation Plan (CAPP) has been prepared and as per plan, Community Orientation Program (CoP) are being conducted on a regular basis in Bhagalpur. So far PMC, with support from DSC and PIU, has been able to conduct seven such CoPs with all the important stakeholders.

P. Conclusion

50.Under tranche 1 of the loan, the contractor has submitted 3 SIPs. SIP 1 and SIP 3 has been approved. SIP 2 is under evaluation and is expected to be approved soon. In the meantime, DMS for the civil implementation works proposed to be taken up in 2016 was conducted in November 2015. The project is likely to lead to relocation impact to one woman headed household at the proposed OHSR site at Barari. However, no temporary impact on livelihood has been noted. The resettlement plan for the same (3 OHSRs and 50 Km of distribution mains) has been updated and submitted to ADB for approval. The approval is awaited. As soon as the approval is obtained from the ADB, the civil implementation work will commence.

Appendix 1: Format for Public Consultations & Focus Group Discussions

(Socio-economic and Environmental)

Name of the Village / Ward:

Name of the Block / Revenue Circle Office:

Name of the District:

Date: Time:

Number of Participants:

Issues	Remarks ¹¹
General perception about the project and the awareness about the proposed project	
component.	
Support of local people for the proposed Bhagalpur Water Supply Project?	
Any critical issue or concern by the local people regarding the project?	
Any criteria would you like to see considered during the project construction and operation stage?	
Are you expecting any difficulties by the construction of Water Supply Project in the	
coming days?	
Is the proposed project going to improve Water Supply System in Bhagalpur Town?	
What kind of Water Supply System do you need in your town?	
Is the proposed project going to provide better and safe drinking water to the local people?	
Is there any shortage of water for human consumption?	
Source of drinking water	
Number of Shops/Hotel/Commercial establishments in the surrounding area	
Numbers of Industrial Units in the surrounding area	
Number of Households and Population in this Village/Ward	
Any Ethnic minorities/tribal population living in this area (Note the name of	
Tribe/Indigenous community, if any)	
Any Vulnerable groups (women headed, BPL, SC, ST, PH etc.) are living in this Village/Ward?	
General socio-economic Condition: What are the economic activities?	
Land use, cropping pattern (Seasonal), types of crops, value of the crops, Average land holding size etc.	
Access to the forest land and the use of the forest land (if any)	
Current rates of the land (Government as well as market rates) in "Bigha"/ "Acre"	
Loss of residential/commercial structures, if any due to the project	
Loss of community life like any Market Places, Religious places, or any community	
activities to be affected?	
Land acquisition and Resettlement (if foreseen due to the construction of Water Supply	
Pipeline, OHSR, Water Treatment Plants, etc.) Has there been land acquisition before? If	
yes, what was the process of land acquisition and compensation package?	
Protected areas (national park, protected forest, religiously sensitive sites, historical or	
archaeological sites), if any	

¹¹ Participants' Opinion, Comments and Suggestions

Issues	Remarks ¹¹
Health status of the Village/Ward. Availability of Hospitals and over all environmental	
condition. Is there any chronic disease prevalent in this area and are you aware about	
HIV/AIDS and STP?	
Poverty Level: Is the area poor or very poor or well off	
Education Status: Literate, illiterate etc.	
Employment Status: Percentage of employment/ unemployment/ underemployment	
Migration Pattern (If any), inward or outward	
If the laying of Water Supply Pipeline necessitates relocation, where would you like to be	
relocated?	
What is the possibility of shifting the religious structure(s)? And where to relocate?	
Type of compensation Paid / Expected (Cash or Kind)	
Perceived benefits from the project	
Perceived losses from the project	
Will there be likely involvement of local people in the implementation of the project?	
What other organizations of a social nature (NGOs/CBOs/ Civil Society) active in the	
village/ ward? Name of these organizations.	
Any Other Issues you may feel to share:	
Is this consultation useful? Comments	

Appendix 2: Sample Grievance Registration Form

Date

Sr. No.

Date

Name and Contact

No. of Complainer

Contact Information/Personal Details

(To be available in Hindi and English or local language, if any)

The **Bihar Urban Development Investment Program (BUDIP)** welcomes complaints, suggestions, queries and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing *(CONFIDENTIAL)* above your name. Thank you.

Place of registration

Name		Gender	Male/ Female	Age		
Home Address						
Village / Town						
District						
Phone no.						
E-mail						
, ,	on/Comment/Question Please provid	e the details (v	vho, what, where a	nd how) o	of your	
grievance below:						
If included as attachr	ment/note/letter, please tick here:					
How do you want us	to reach you for feedback or update	on your comm	nent/grievance?			
FOR OFFICIAL USE	ONLY					
	ne of official registering grievance)					
If – then mode:	- Control registering grievance					
□Note/Letter						
□E-mail						
□ Verbal/Telephonic						
Reviewed by: (Name	es/Positions of Official(s) reviewing	grievance)				
Action Taken:						
Whether Action Taken Disclosed: □Yes						
		□No				
Means of Disclosure:						
GRIVENCE REDRESS REGISTAR : GRIVENCES RECORD AND ACTION TAKEN						

Type

Complain

of

Place

Status of

Redress

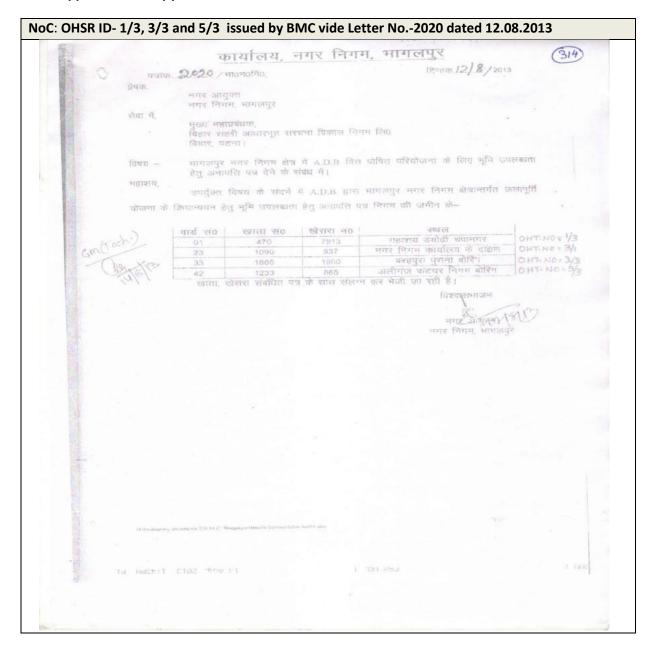
Remarks

Appendix 3: Status of NOC

SI. No.	OHT ID	Name of Location	Land Ownership	Drawing submitted (AREA)	Status of NoC	NOC obtained for Land Area
1	1/1	Within the Campus of T.M. University, * Bhagalpur	Govt., extra land available	40mX40 m	received	40mX40m
2	1/2	Within the Campus of Constable Training School, Nathnagar	Govt., extra land available	40mX40 m	received	40mX40m
3	1/3	Mahashay Deodhi-1, Near Existing Tube Well Champanagar	Private,	30mX30 m	received	15m X 15m
4	1/3 (A)	Mahashay Deodhi - 2, Near Thakurbari in Champanagar	Private,		received	15m X 15m
5	1/4	Abir Mishra Lane, Near Nathnagar Police Station, Nathnagar	Govt., extra land available	35mX35m	received	20m X 20m
6	2/2	Within Jaglal High school at Company Bagh	Govt., extra land available	30mX30m	received	20m X 20m
7	2/3	BMC godown, Tatarpur	Govt., extra land available	30mX30m	received	20m X 20m
8	2/6	Manik- Sarkar	Govt., extra land not available	35mX35m	received	30m X 27m
9	3/1	Lajpat park	Govt., extra land available on one side available	30mX30m	received	20m X 20m
10	3/2	Within the campus of the Road Division, Adampur, Bhagalpur	Govt., extra land available	35mX35m	received	20m X 20m
11	3/3	Barahpura Eidgah	Govt., extra land not available	35mX35m	received	14m X 28m
12	4/1	* Housing Board Colony	Govt., extra land available	25mX25m	received	25m X 25m
13	4/2	Adjacent (west side) to Bhagalpur Central Jail, near Anandnagar Colony (south west of Sunderban)	Govt., extra land available	35mX35m	received	20mX20m
14	4/4	In front of Medical Quarter, Surkikal	Govt., extra land available	30mX 30m	received	20m X 20m
15	5/1	Open land to the north of the temple, Sarbajanik Thakurbari, Warsaliganj	Private Temple Trust extra land available	30mX30m	received	30m X 30m
16	5/2	North of Bazar Samiti campus, Agricultural Market Complex Baghbari.	Govt., extra land available	30mX30m	received	20m X 20m
17	5/3	Open land to the west of the tube well , Aliganj Katghar	Govt., extra land not available	35m X 35m	received	15m X 12m
18	5/4	Mughalpura Kawali Maidan, Hussainabad	Private Urs Committee, extra land available	30m X 30m	received	30m X 30m
19	5/7	Sikandarpur	Govt., extra land not available	30m X 30m	received	37m X 44m

^{*} Proposed to be constructed in 2016

Appendix 3.1: Copy of NoCs received



श्री श्री 108 राघा कृष्ण सार्वजनिक ठाकुरवाड़ी समिति, वारसलीगंज, भागलपुर

दिनांक 2.0. 1.0.8.. /13

प्रेषक,

श्री श्री 108 राघा कृष्ण सार्वजनिक ठाकुरबाड़ी समिति,

वारसलीगंज, भागलपुर।

सेवा में,

बिहार आधारभूत संरचना विकास निगम लि0,

बिहार, पटना ।

विषय-

ADB Loan No. 2861-IND के अन्तर्गत भागलपुर जलापूर्ति योजना के लिए भूमि

उपलब्धता हेतु अनापत्ति प्रमाण पत्र के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि भागलपुर नगर निगम क्षेत्रान्तर्गत बिहार शहरी आधारभूत संरचना विकास निगम लि0 द्वारा ऐशियन डब्लभपमेंट बैंक के द्वारा प्रदत्त राशि से जल मिनार निर्माण प्रस्तावित है। जिसमें श्री श्री 108 राधा कृष्ण सार्वजनिक ठाकुरवाड़ी समिति, वारसलीगंज भागलपुर की परती भूमि पर निर्माण करने में कोई आपत्ति नहीं है।

विश्वासभाजन

निगम पार्षद, प्रमाग सं० 51 श्री श्री 108 राघा कृष्ण सार्वजनिक ठाकुरबाड़ी समिति, वारसलीगंज, भागलपुर।

Copy received by Post on 23/01/14

NoC- OHSR ID 5/4 issued by Urs Committee vide Letter No.- --- dated ---The second secon Phone :- 2000354 رب ويد عنوس سيداشاه حسن پيريا صفا رحدة اللاعليه مغليورة مسهور أياف بهاكليورس वसं कामिरी URS COMMITTEE MOGRALPHRA, HOSSAINABAD - जायलपुरा, होसंदायाच BHAGALPOR-S मान्यभूष-॥ Rat. No co do co same सेवा में, श्रीमान् नगर आयुक्त , नगर निगम भागलपर विषय :- कव्वाली मैदान मोगलपुरा हुसेनाबाद मे जलमीनार निर्माप करने हेतु अनापत्ति प्रमाण पत्र महाराय, निवेदन यह हिंक हम उसकिमिटी भी गलपुरा हुसेना बाद वार्डनं। 44 थाना मोजाहिन्पुर जिला भागलपुर के सभी सदस्याण को अपरो वत वर्षित स्थान मे जलभीनार निर्माण करने में कोई आपत्ति नहीं है। अतः श्रीमान् से प्रार्थना हो के हमलोगों के जारा प्रस्तुत प्रमाप पत्र को स्वीकार करने की कृमा प्रदान की जाय झाके लिए आ किमिटी के सभी सदस्यगण श्रीमानें का सदा आशारी बने रहे में। Md. Saud Alem Secretary Md. Saud Alam Copy received by fost on 23/01/2014

NoC:- OHSR ID 4/1 issued by Bihar State Housing Board vide letter No.- 133/2014 7689 dated 16.10.2014

बिहार राज्य आवास बोर्ड

BIHAR STATE HOUSING BOARD

6, सरदार पटेल मार्ग / Sardar Patel Marg, पटना / Patna-800 015,

दूरभाष / Phone : 0612-2217992, फैक्स / Fax : 0612-2217605, 2217986

वेबसाईट / website : www.bshb.in

मु0अ0को0-133/2014 76 89 सं/No.

दिनांक/Date 16-10-2014

सेवा में.

बिहार शहरी आधारभूत संरचना विकास निगम लि0,

303, मौर्या टावर, बुद्ध मार्ग,

पटना-800001

विषय:-ADB Loan No-2861-IND; के अन्तर्गत भागलपुर जलापूर्ति योजना के लिए

जलमीनार निर्माण हेतु अनापत्ती प्रमाण पत्र के सम्बन्ध में।

आपके कार्यालय का पत्र सं0- बुडको / एस0आई0यू0-8 / यो0-11 / 13-2869 प्रसंग :-

दिनांक- 23.08.2014

महोदय,

उपरोक्त विषय के प्रसंग में बरारी, सेक्टर-1, भागलपुर में अवस्थित पार्क में पम्प हाउस के निकट 25mx25m साईज भू—खण्ड पर भागलपुर जलापूर्ती योजना के अर्न्तगत जलमीनार बनाने की अनुमति दी जाती है।

विश्वासभाजन

Amo 1017 प्रबंध निर्देशक ।

GEN.

ज्ञापांक- 7689

पटना, दिनांक- 16-10-2014

प्रतिलिपि: - महाप्रबंधक (कार्य), बिहार शहरी आधारभूत संरचना विकास निगम लि०, 303, मौर्या टावर, बुद्ध मार्ग, पटना-800001 को सूचनार्थ प्रेषित।

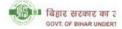
प्रबंध निदेशक।

ज्ञापांक- 7689

पटना, दिनांक-16-10-2014

प्रतिलिपि :- मुख्य अभियंता / अधीक्षण अभियंता, बिहार राज्य आवास बोर्ड, पटना / कार्यपालक अभियंता, बिहार राज्य आवास बोर्ड, भागलपुर प्रमंडल को सूचनार्थ एवं आवश्यक

कार्याथ हेत् प्रेषित।





तिलकामाँझी भागलपुर विश्वविद्यालय भागलपुर-812007

чять Engal Misc /27/13-14- E/712/14-15

दिनांक 10. ७7.14

सेवा में,

मुख्य महाप्रबंधक, बिहार शहरी आधारभूत संरचना विकास निगम लिमिटेड, बुद्ध मार्ग, पटना–800001

विषय ADB Loan No.-2861-1ND के अन्तर्गत भागलपुर जलापूर्ति योजना के लिए भूमि उपलब्धता हेतु अनापत्ति प्रमाण-पत्र उपलब्ध कराने के संबंध में ।

महाशय,

उपर्युक्त विषयक पत्रांक-बुडको/एस०आई०यू०-8/मो०-11/13 एवं ज्ञापांक 2372 दिनांक 19.10.2013 के संदर्भ में सूचित करना है कि तिलकामांझी भागलपुर विश्वविद्यालय परिसर स्थित स्नातकोत्तर भौतिकी विज्ञान विभाग के बगल में जलमीनार निर्माण हेतु 40 मीटर x 40मीटर का भूखंड (वार्ड नं०-19, खाता नं०-957, खेसरा नं०-130 क हाल सर्वे 1976-77) से उपलब्ध कराने का आदेश कुलपति महोदय ने निम्नांकित शर्तों के साथ प्रदान किये हैं।

- 1. भूखंड पर विश्वविद्यालय का पूर्ण स्वामित्व बना रहेगा।
- 2. जलमीनार परिसर पर किसी भी तरह का स्थाई अथवा अस्थाई निर्माण कार्य बिना विश्वविद्यालय के पूर्व अनुमित के नहीं किया जायेगा।
- उ. जलापूर्ति हेतु यदि कोई जलकर वांछित हो तो सरकारी उपक्रम (Govt. agency) की तरह सभी रनातकोत्तर विभागों, छात्रावासों, टी॰एन॰बी॰ कॉलेज एवं कॉलेज परिसर में अवस्थित आवासों को सस्ते दरों (50% कम) पर जलापूर्ति सुनिश्चित करेंगे।
- 4 जलमीनार परिसर में कार्यरत सरकारी / गैर सरकारी कर्मचारियों का आवा—जाही, रहन—सहन विश्वविद्यालय के नियम, परिनियम के तहत निर्धारित होगा।

अतः उपरोक्त शर्तों के आधार पर अधोहस्ताक्षरी के साथ MOU/एकरारनामा करने का कष्ट करें।

कृपया इसे प्राथमिकता प्रदान किया जाय।

विश्वासभाजन,

कलसचिव

NoC: OHSR ID 1/3 (Mahashay Deodhi) issued by District Administration vide letter no.- 405 Date 02.02.2015

भागलपुर समाहरणालय (जिला राजस्व शाखा) पत्रांक- ५८६ /रा०,

प्रेषक.

अपर समाहर्त्ता, भागलपुर।

सेवा में.

प्रोजेक्ट डायरेक्टर, वुडको, भागलपुर।

मागलपुर, दिनांक-......... फरवरी 2015

विषय- ए०डी०बी० संपोषित शहरी विकास योजना के कार्यान्वयन(O.H.T) हेतु भू

आपका पत्रांक-3849 दिनांक-25.11.14

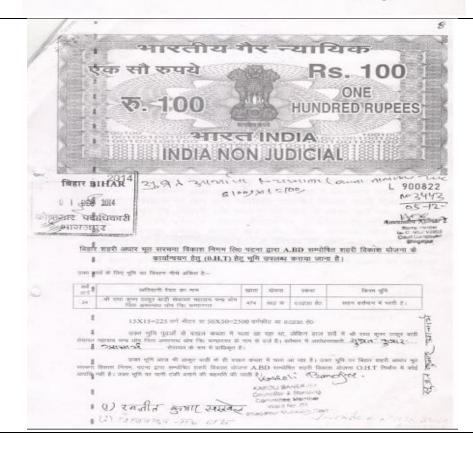
प्रसंग-महाशय,

उपर्युक्त विषय के संबंध में अंचल अधिकारी, नाथनगर द्वारा अपने पत्रांक— 136 दिनाक— 31.01.2015 से प्रतिवेदित किया है कि बिहार शहरी आधारमूत संरचना विकास निगम लि0 द्वारा ए०डी०बी० संपोषित विकास शहरी विकास योजना के कार्यान्वयन हेतु सरकारी भूमि उपलब्ध नहीं रहने के कारण वार्ड नं0— 24, खाता नं0— 474, खेसरा— 862 कं, रकवा— 0.0230 है0 एवं 0.0200 है0 भूमि जो श्री राधा कृष्ण ठाकुरवाडी सेवायत महाशय चन्द्र घोष, पिता— अमरनाथ घोष के नाम से खितयान दर्ज है। उक्त खितयानी रैयत के सेवायत श्री सुब्रत कुमार आचार्य के द्वारा उक्त भूमि में से 2500 वर्ग फीट या 0.0230 है0 भूमि पानी टंकी बनाने हेतु 100 रू0 के स्टाम्प पर अपनी लिखित सहमति दी गयी है। जिसे मूल में संलग्न कर आवश्यक कार्रवाई हेत् भेजा जाता है।

अनुलग्नक- सहमति पत्र मूल में।

विश्वासभाजन

अपर समाहत्ती, भागलपुर।



Order of Chief Seceretary, Government of Bihar for issuance of NoC

दिनांक—08.12.14 अप0 3:00 बजे मुख्य सचिव, बिहार की अध्यक्षता में ADB सम्पोषित भागलपुर एवं गया जलापूर्ति योजनाओं के कार्यान्वयन हेतु भूमि उपलब्धता विषय पर आयोजित_बैठक की कार्यवाही

उपस्थित:- यथा पंजी के अनुसार

कार्यवाही:-

ADB सम्पोषित भागलपुर जलापूर्ति योजना फेज—।, फेज—।। एवं गया जलापूर्ति योजनाओं के कार्यान्वयन हेतु भूमि उपलब्धता के विषय पर सभी संबंधित विभाग के प्रधान सचिव/सचिव से विमर्श के बाद निम्नांकित निर्णय लिया गया।

1. पथ निर्माण विभाग:-

- (1) भागलपुर जलापूर्ति योजना फेज 1 के अन्तर्गत जलिमनार निर्माण के लिए पथ प्रमंडल आदमपुर, भागलपुर कार्यालय परिसर के अंदर 20 x 20 भूखण्ड पर कार्य कराने की स्वीकृति दी गई।
- (II) विक्रमशीला सेतु के समीप पथ निर्माण विभाग के भूखण्ड पर भागलपुर जलापूर्ति योजना फेज— II अंतर्गत 33 / 3.3 के0भी० के सब स्टेशन की स्थापना हेतु 40 X 70 मीटर भूखण्ड पर कार्य करने की स्वीकृति दी गई।

2. स्वास्थ्य विभाग:-

- (i) भागलपुर जलापूर्ति योजना फेज 1 के अन्तर्गत जलिमनार निर्माण के लिए भागलपुर सेट्रल जेल, आनंद नगर कॉलोनी के नजदीक स्वास्थ्य विभाग के भूखण्ड के अंदर 20 X 20 भूखण्ड पर कार्य कराने की स्वीकृति दी गई।
- (II) भागलपुर जलापूर्ति योजना फेज 1 के अन्तर्गत जलिमनार निर्माण के लिए मेडिकल स्टाफ क्वार्टर सुरकी काल के सामने स्वास्थ्य विभाग के भूखण्ड के अंदर 20 X 20 भूखण्ड पर कार्य कराने की स्वीकृति दी गई।
- (III) यह निदेश दिया गया कि WTP के लिए बुडको बैकल्पिक भूखण्ड की तलाश करे। बैकल्पिक भूखण्ड की सम्भावना नहीं रहने की स्थिति में संबंधित विभाग से भूमि के उपयोग करने के लिए कार्रवाई की जाएगी। चूिक वर्णित भूमि चिकित्सा महाविद्यालय की है और भविष्य में चिकित्सा महाविद्याल के भवनों के विस्तार की सम्भावना है, जिसमें चिकित्सा महाविद्यालय की भूमि का उपयोग होना हैं। प्रधान सचिव, स्वास्थ्य विभाग यह सुनिश्चित कर लें कि भविष्य में मेडिकल कॉलेज के विस्तार के आलोक में WTP के लिए भूमि का NOC देना संभव है अथवा नहीं।



3. कृषि विभाग:-

भागलपुर जलापूर्ति योजना फेज – 1 के अन्तर्गत जलिमनार निर्माण के लिए बाजार सिमिति के उत्तर कृषि बाजार कम्प्लेक्स बगहबाड़ी में कृषि विभाग के भूखण्ड के अंदर 20 X 20 भूखण्ड पर कार्य कराने की स्वीकृति दी गई।

4. उद्योग विभाग:-

भागलपुर जलापूर्ति योजना फेज – 1 के अन्तर्गत जलिमनार निर्माण के लिए अबीर मिश्रा लेन नाथ नगर पी०एस० के निकट, रंगाई केन्द्र चंपा नगर, भागलपुर में उद्योग विभाग अंतर्गत उपलब्ध भूखण्ड के अंदर 20 x 20 भूखण्ड पर कार्य कराने की स्वीकृति दी गई।

5. गृह विभाग:-

भागलपुर जलापूर्ति योजना फेज – 1 के अन्तर्गत जलिमनार निर्माण के लिए पुलिस प्रशिक्षण केन्द्र नाथ नगर के उत्तर, आरक्षी प्रशिक्षण, महाविद्यालय, नाथ नगर में गृह विभाग के भूखण्ड के अंदर 20 x 20 भूखण्ड पर कार्य कराने की स्वीकृति दी गई।

6. शिक्षा विभाग:-

भागलपुर जलापूर्ति योजना फेज -1 के अन्तर्गत जलिमनार निर्माण के लिए कम्पनीबाग में जगलाल हाई स्कूल के कैम्पस के अन्दर शिक्षा विभाग के भूखण्ड के अंदर 20 \times 20 भूखण्ड पर कार्य कराने की स्वीकृति दी गई।

7. जिला प्रशासन गया:-

नगर आयुक्त, गया, जिला पदाधिकारी के प्रतिनिधि के रूप में शामिल हुए और उन्होनें बताया कि उनके यहां भूमि उपलब्ध कराने में कोई समस्या नही है।

- (i) गया जलापूर्ति योजना के कार्यान्वयन हेतु वार्ड नं० 48, किर्लोस्कर पम्प हाउस के उत्तर, जोड़ा मस्जिद के निकट मानपुर (ब्लॉक) में 30 x 30 मीटर, भूखण्ड उपलब्ध कराने की स्वीकृति दी गई।
- (ii) गया जलापूर्ति योजना के कार्यान्वयन हेतु वार्ड नं० 48, उर्दु मोहम्मदन टोला के उत्तर, गौरी शंकर मदिर के निकट, मानपुर (ब्लॉक) में 30 x 30 मीटर, भूखण्ड उपलब्ध कराने की स्वीकृति दी गई।
- (iii) गया जलापूर्ति योजना के कार्यान्वयन हेतु वार्ड नं० 01, खरखुरा राजा कोठी, चंदौती (ब्लॉक), में 30 x 30 मीटर, भूखण्ड उपलब्ध कराने की स्वीकृति दी गई।



- (iv)गया जलापूर्ति योजना के कार्यान्वयन हेतु वार्ड नं० 50, भुसुंडा, (जहां स्टेडियम प्रस्तावित है), मानपुर, (ब्लॉक), में 30 x 30 मीटर, भूखण्ड उपलब्ध कराने की स्वीकृति दी गई।
- (v) गया जलापूर्ति योजना के कार्यान्वयन हेतु वार्ड नं० 50, मस्तालीपुर, मानपुर अंचल कार्यालय के दक्षिण, मानपुर (ब्लॉक) में 30 x 30 मीटर, भूखण्ड उपलब्ध कराने की स्वीकृति दी गई।
- (vi)गया जलापूर्ति योजना के कार्यान्वयन हेतु वार्ड नं० 27, बरगद पेड़ के दक्षिणी तरफ बड़की ढेलहा, धनियाँ बगीचा, चंदौती (ब्लॉक), में 30 x 30 मीटर, भूखण्ड उपलब्ध कराने की स्वीकृति दी गई।

धन्यवाद के साथ बैठक समाप्त हुई।

मुख्य सचिव,

बिहार सरकार

ज्ञापांक- 3990

दिनांक- 17/19/14

प्रतिलिपि:-

प्रधान सचिव, पथ निर्माण विभाग / प्रधान सचिव, स्वास्थ्य विभाग / प्रधान सचिव, कृषि विभाग / प्रधान सचिव, उद्योग विभाग / प्रधान सचिव, गृह विभाग / प्रधान सचिव, शिक्षा विभाग / जिलाधिकारी, भागलपुर / जिलाधिकारी, गया।

सचित

नगर विकास एवं आवास विभाग।

English translation of the office order issued by the Chief Secretary, Govt. of Bihar

Minutes of the Meeting organized on 08.12.2014 at 3:00 p.m. under the chairmanship of the Chief Secretary, Govt. Of Bihar to discuss and ensure availability of land for implementing BUDIP program

Attendance: - as per the register.

Action taken-

The following decisions are taken based on the interaction with the concerned Principal Secretaries / Secretary on land availability for the execution of the ADB funded Bhagalpur Water Supply Project Phase-I , Phase-II and Gaya Water Supply Project

1. Road Construction Department

- (I) Permission granted to construct an Over Head Tank (OHT) under Phase-I of Bhagalpur Water Supply Project on 20X 20 plot on the piece of land within the premises of the Divisional office of the Road Construction Department, Adampur Bhagalpur.
- (II) Permission granted to establish 33/3.3 K.V substation under Phase-II of Bhagalpur Water Supply Project on 40X 70 meter plot on the piece of land belonging to the Road Construction Department near the Vikramshila Bridge, Bhagalpur.

2. Health Department

- (I) Permission granted to construct an Over Head Tank (OHT) under Phase-I of Bhagalpur Water Supply Project on 20X 20 plot on the piece of land belonging to the Health department situated near the Bhagalpur Central Jail, Anand Nagar Colony Bhagalpur.
- (II) Permission granted to construct an Over Head Tank (OHT) under Phase-I of Bhagalpur Water Supply Project on 20X 20 plot on the piece of land belonging to the Health department situated in front of the Medical Staff Quarter, Surkikal Bhagalpur.
- (III) BUIDCO was directed / asked to explore other avenues / availability of the required piece of land elsewhere for the WTP. Action / steps will be taken seeking permission for the construction of WTP from the concerned department only if there is no alternate piece of land available for the purpose. As the piece of land belongs to the Medical College and there is every likelihood of expansions of new buildings on the proposed piece of land, so the Principal Secretary, Health Department should ensure if it is feasible to issue NOC for the construction of the WTP or not keeping the future expansion plans in mind.

3. Agriculture Department

Permission granted to construct an Over Head Tank (OHT) under Phase-I of Bhagalpur Water Supply Project on 20X 20 plot on the piece of land belonging to the Agriculture Department in the Agricultural Market Complex Baghbari on the north side of Bazar Samitee Bhagalpur.

4. Industries Department

Permission granted to construct an Over Head Tank (OHT) under Phase-I of Bhagalpur Water Supply Project on 20X 20 plot on the piece of land belonging to the Industry Department in the Abir Mishra Lane near Dyeing Centre, Champanagar Nathnagar Police Station Bhagalpur.

5. Department of Home

Permission granted to construct an Over Head Tank (OHT) under Phase-I of Bhagalpur Water Supply Project on 20X 20 plot on the piece of land belonging to the Home Department in the north side of the Constable Training School Nath Nagar, Bhagalpur.

6. Education Department

Permission granted to construct an Over Head Tank (OHT) under Phase-I of Bhagalpur Water Supply Project on 20X 20 plot on the piece of land belonging to the Education Department in the premises of Jaglal High School, Bhagalpur.

7. District Administration Gaya

Municipal commissioner, Gaya officiated as the representative of the District Magistrate, Gaya and informed that they don't have any issue in allocating the piece of land.

(I) Permission granted to construct an Over Head Tank (OHT) under Phase-I of Gaya Water Supply Project on 30X 30 meter plot on the piece of land on north of the Kirloskar Pump House near Joda Masjid /Mosque at Ward No.- 48 Manpur (Block).

- (II) Permission granted to construct an Over Head Tank (OHT) under Phase-I of Gaya Water Supply Project on 30X 30 meter plot on the piece of land on north of the Gauri Shankar Temple near Urdu Mohammaden Tola at Ward No.- 48 Manpur (Block).
- (III) Permission granted to construct an Over Head Tank (OHT) under Phase-I of Gaya Water Supply Project on 30X 30 meter plot on the piece of land in Kharkhura Rajakothi at Ward No.- 01, Chandauti (Block).
- (IV) Permission granted to construct an Over Head Tank (OHT) under Phase-I of Gaya Water Supply Project on 30X 30 meter plot on the piece of land at Bhusunda (where stadium is proposed) at Ward No.- 50, Manpur (Block).
- (V) Permission granted to construct an Over Head Tank (OHT) under Phase-I of Gaya Water Supply Project on 30X 30 meter plot on the piece of land on south of the Mastallipur Manpur Circle Office at Ward No.- 50, Manpur (Block).
- (VI) Permission granted to construct an Over Head Tank (OHT) under Phase-I of Gaya Water Supply Project on 30X 30 meter plot on south of the Banyan Tree at Dhaniya Bagicha, Badki Delha in Ward No.- 27, Chandauti (Block).

The meeting ended with vote of thanks.

Memo No.- 3990

Date - 17.12.14

APPENDIX 4: OFFICE order pertaining to formation of GRM

बिहार सरकार नगर विकास एवं आवास विभाग।

: संकल्प : -

बिहार राज्य अंतर्गत जलापूर्ति तथा सिवरेज योजनाओं के निर्माण हेतु बिहार शहरी विकास इन्वेस्टमेंट प्रोग्राम (BUDIP) - Loan No. 2861 - IND के तहत एशियन डेवलपमेंट बैंक (ADB) द्वारा ऋण उपलब्ध कराया जा रहा है। इस लोन प्रोग्राम के अंतर्गत भागलपुर एवं गया शहर के लिए जलापूर्ति तथा सिवरेज योजनाओं का कार्यान्यवन कराये जाने का प्रस्ताव है। इन योजनाओं के लिए बिहार शहरी आधारभूत संरचना विकास निगम लिमटेड (बुडको) को प्रोजक्ट मैनेजमेंट यूनिट तथा कार्यान्वयन ऐजेंसी घोषित किया गया है।

- एशियन डेवलपमेंट बैंक (ADB) सम्पोषित योजनाओं के कार्यान्यवयन के लिए ADB के मार्गदर्शिका में दिये गये प्रावधान के आलोक में शहर स्तर पर एक शिकायत निवारण तंत्र (जी०आर०एम०) का गठन किया जाता है।
- नगर विकास एवं आवास विभाग एवं बिहार शहरी आधारभूत संरचना विकास निगग लिमिटेड (BUIDCo) द्वारा एशियन डेवलपमेंट बैंक (ADB) सम्पोषित BUDIP के अंतर्गत योजनाओं के लिए निम्नानुसार त्रिस्तरीय शिकारयत निवारण तंत्र (जी०आर०एम०) स्थापित किया जाता है। शिकायत प्रथम स्तर पर प्राप्त की जायेगी। यदि नागरिक प्रथम स्तर पर संतुष्ट नहीं होते हैं तो वे द्वितीय एवं तत्पश्चात् तृतीय स्तर पर आवेदन कर सकेंगे। शिकायत का निष्पादन निम्नानुसार वर्णित अविध में किया जाना है:-

स्तर	समिति	निष्पादन की अवधि
प्रथम	योजना प्रबंधन ईकाई (Project Management Unit)	शिकायत पत्र प्राप्ति के 90 दिनों के अंदर
द्वितीय	शहर स्तर समितियां (Town Committee)	60 दिनों के अंदर
तृतीय	कार्यक्रम संचालन समिति (Steering Committee)	90 दिनों के अंदर

जी०आर०एम० अंतर्गत गठित एशियन डेवलेपमेंट बैंक संपोषित योजनाओं के कार्यान्वयन में प्राप्त शिकायतों का निष्पादन करेंगी।

> 天0/一 प्रधान सचिव,

approved

नगर विकास एवं आवास विभाग।

दिनांक - 27/05/2015.

ज्ञापांक - 1615 प्रतिलिपि:- आप्त सचिव, विकास आयुक्त, बिहार/प्रधान सचिव, वित्त विभाग/प्रधान सचिव/सचिव, योजना एवं विकास विभाग / प्रधान सचिव / सचिव, नगर विकास एवं आवास विभाग / प्रबंध निदेशक, बुडको / सभी सदस्य को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

प्रधान सचिव,

नगर विकास एवं आवास विभाग।

English translation of the Office Order issued for the constitution of GRM

- 1. Under Loan No. 2831 IND, a loan is being extended to Bihar Urban Development Investment Program (BUDIP) by Asian Development Bank (ADB) for creating water supply and sewerage systems. The creation of water supply and sewerage systems in two cities of Bihar —Gaya and Bhagalpur, is proposed under this loan program of BUDIP. The Bihar Urban Infrastructure Development Corporation (BUIDCo) shall be the designated Project Management Unit (PMU) as well as the Implementing Agency for these programs.
- 2. In compliance with the specific provisions of ADB guidelines prescribed for the implementation of ADB funded projects, a Grievance Redressal Mechanism is, hereby, constituted.
- 3. Under ADB funded programs of BUDIP, a three-tier GRM is being jointly established by Urban Development & Housing Department (UDHD) and Bihar Urban Infrastructure Development Corporation (BUIDCo). The complaint shall first be registered with the first tier and only if the grievance is not redressed at the first tier, the complainant shall have right to appeal to the second and third tiers of GRM. Redressal of complaints at different tier of GRM shall be in accordance with the following chart:

Tier /level	Name of the institution	Period for redressal of complaint
First	Project Management Unit (PMU)	Within 90 days from the date of receipt of the
		complaint
Second	Town Level Committees (TLC)	Within 60 days from the date of receipt of the
		complaint
Third	Steering Committee	Within 60 days from the date of receipt of the
		complaint

^{4.} GRM will address only complaints which it receives from the public with regard to implementation of ADB funded projects of BUDIP.

(Signature)

Principal Secretary UDHD, Govt. of Bihar

Letter No.: 16/5 Dated: 27.05.2015

Copy to:

Personal Secretary; Development Commissioner, Bihar; Principal Secretary-Finance Department; Principal Secretary/Secretary —Planning & Development Department; Principal Secretary/Secretary —UDHD; Managing Director-BUIDCo and all staff members of BUIDCo for information and reference.

(Signature)
Principal Secretary
Urban Development & Housing Department

APPENDIX 5: Entitlement Matrix

SI. No.	Type of loss	Definition of entitled person	Compensation policy	Implementation issues	Responsible agency	Sites where applicable
1	Loss of residential structure	Encroachers, squatters	Encroachers / squatters will be notified and given 60 days advance notice to remove their assets. Compensation for affected structures or part thereof at replacement value calculated as per the latest prevailing basic schedule of rates (BSR) without depreciation; Cash compensation for repair of partially affected structure. Right to salvage material from the demolished structure at no cost. A lump sum shifting assistance of Rs10000 will be provided, each time affected household is required to relocate. Cash assistance towards rental subsidy for a period of time until alternate means of access to housing available. Additional compensation for vulnerable squatter households (item # 3)	Vulnerable households will be identified during the census conducted by the DSC.	The DSC will verify the extent of impacts through a 100% survey of AHs determine assistance, verify and identify vulnerable households.	Barari OHT site Housing Board
2	Loss trees and crops	Encroachers/ squatters	Encroachers and squatters will be notified and given 60 days advance notice to remove trees and 6 months' notice to harvest seasonal crops and fruit trees. Compensation will be given for standing crops/ trees planted by non- titleholders.	Harvesting prior to acquisition will be accommodated to the extent possible Work schedules will avoid harvest season. Market value of trees/crops has to be determined. Vulnerable households will be identified and provided assistance as required	DSC in consultation with Agriculture / Forest Department officials or with experts in the respective fields.	None
3	Impacts on vulnerable Aps	Vulnerable APs ¹²	In case of total loss of private land and a total dependency on	Vulnerable households will be identified	The DSC will verify the extent of	

The following vulnerability criteria are identified in the context of Bihar: (1) households belonging to most backward communities; (2) head of household is a woman; (3) head of household is illiterate; (4) head of household is a daily wage labourer, (5) below poverty line household; (6) household with disabled family members; and (6) household living in a kutcha house. ADB's Facility Administration Manual states that "more vulnerable" households are those that meet 5 or more of the above-mentioned vulnerability criteria. Implicit in the definition is that households meeting fewer criteria are also vulnerable, albeit to a lesser degree, and require additional support/assistance.

SI. No.	Type of loss	Definition of entitled person	Compensation policy	Implementation issues	Responsible agency	Sites where applicable
			agriculture, land-for-land compensation, if signified by the affected persons. Additional one-time lump sum assistance of Rs 36,000 (calculated for 12 months subsistence allowance) per vulnerable family will be paid. This will be over and above the other assistance given in this framework. Vulnerable households will be given priority in employment in project construction activities. All Scheduled Castes and Scheduled Tribes relocated outside the district will be provided an additional 25% of the resettlement benefits to which they are entitled along with a onetime resettlement entitlement of Rs 50,000 per the provisions of the RFCTLARRA. Provision for project operation related training and employment, OR, skill training for displaced vulnerable persons, including assistance for purchase of income generating assets and initial capital of INR 40,000/ -	during the census conducted / supervised by the DSC. If land-for-land is offered, ownership in the name of original landowner(s).	impacts through a 100% surveys of AHs determine assistance, verify and identify vulnerable households.	
4	Loss of livelihood / income source	Owner/tenant s and leaseholders / sharecroppers (whether having written tenancy/lease documents or not)	In case of loss of livelihood (total income loss from major source): Choice of annuity or employment — the following options are to be provided: (a) where jobs are created through the project, 'after providing suitable training and skill development in the required field, make provision for employment at a rate not lower than the minimum wages provided for in any other law for the time being in force, to at least one member per affected family in the project or arrange for a job in such other project as may be required; or (b) Onetime payment of Rs.5,00,000 per affected family; or (c) Annuity policies that shall pay not less than Rs.2000.00 per month per family for twenty years, with appropriate indexation to the Consumer Price Index for Agricultural Labourers. In case of total loss/partial loss of	Vulnerable households will be identified during the census conducted by the DSC.	The DSC will verify the extent of impacts through a 100% survey of AHs determine assistance, verify and identify vulnerable households.	

SI. No.	Type of loss	Definition of entitled	Compensation policy	Implementation issues	Responsible agency	Sites where applicable
		person	income: Preference for employment opportunity for Affected Persons in the project construction work, if so desired by them. Training would be provided for income generating vocational training and skill improvement options based on the choice of the affected person at Rs 20,000 ¹³ per family. This cost would be directly paid by the project to the training institute OR purchase of income			
5	Temporary disruption of livelihood	Legal titleholders, tenants, leaseholders, sharecroppers , employees, hawkers or vendors.	generating assets up to Rs.40, 000 ¹⁴ . 30 days advance notice regarding construction activities, including duration and type of disruption. Cash assistance based on the minimum wage for the loss of income/livelihood for the period of disruption For construction/other activities involving disruption for a period of a month or more, provision of alternative sites for hawkers and vendors for continued economic activities. If not possible, additional allowance based on minimum wage rate for vulnerable households for 1 month or the actual period of disruption whichever is more.	During construction, the PIU will identify alternative temporary sites to the extent possible, for vendors and hawkers to continue economic activity. PIU will ensure civil works will be phased to minimize disruption through construction scheduling in co- ordination with the contractors and the DSC	Alternative locations, if any will be identified for the said duration of disruption.	Pipelaying activity (distribution pipes, rising mains and distribution mains)
6	Any other loss not identified	-	Any unanticipated impacts of the project will be documented and mitigated based on the spirit of the principles agreed upon in this Resettlement Framework and the RFCTLARRA Unanticipated involuntary impacts will be documented and mitigated based on the principles provided in the ADB IR Policy.		The DSC will ascertain the nature and extent of such loss. The PMU with PIU support, will finalize the entitlements in line with ADB IR policy.	

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¹³ The Vocational Training Programme by the Industrial Training Institutes provides training on a number of trades, under the Directorate general of Employment and Trade, Ministry of Labour and Employment, GOI. Additional cash assistance will be provided during the training period to make up for income loss of working members. The additional cash assistance will be calculated based on prevailing minimum wage rates for semi-skilled labor in urban Bihar for three months.

¹⁴ This is an estimate. The income generating asset will be skill related. However the assets will be decided on a case to case basis.

APPENDIX 6: Socio Economic profile

SI. No.	Name of AP	Size and use of affected property (sq m)	Cost of affected property ¹⁵	% of loss	Income sources of HH	Vulnerable	HH size	Type of house	Asset owner-ship	Remarks
1	Ms. Asha Devi Mobile Number - 8083552561 / 9973393432	9 x 6.65 = 59 Residential	25,000.00	100 %	works with the Water Works Department of BMC	Yes	7	Kutcha ¹⁶	Land ownership - Housing Board Kutcha Structure- Private	Relocation impact due to structure loss.
2	Mr. D .N. Mandal Mobile Number - 9431277645	6x4=24 Cattle shed	10,000.00	40%	Rickshaw pulling and wage labour work	Yes		Kutcha	Private	

 15 Replacement Cost of affected property has been calculated as per estimate submitted by DSC 16 Kutcha - Kutcha structure with bamboo wall , mud floor and hey roof

APPENDIX 7: Summary of Community Consultations

SI. No.	Date	Location	No. of Wards Included	No. of Participants	Issues/Queries Raised ¹⁷	Photographs
1	18 th Dec, 2014	CMS School Narga, Ward No. 9	Ward No. 1,2,7,8,9	Total-39 M – 33 F – 6	 Process and basis of tariff fixation for water consumers. Subsidy for the poor households belonging to vulnerable social category. Work schedule of actual construction work. 	
2	16 th Jan, 2015	Govt. Girls High Inter School, Nathnagar, Bhagalpur, Ward No. 6	Ward No. 3,4,5,6,12	Total-37 Male-30 Female-7	 Provision of water for nondrinking purposes like washing clothes, utensils and bathing. Payment/nonpayment of user charges. Usability of the existing distribution pipelines. 	

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¹⁷ The community consultation programs are being organized as per Community Orientation and Participation Plan (CAPP). The CAPP provides a suitable module for generating awareness about the benefits which will accrue to them among the end-users/beneficiaries, representatives of ULB and other important stakeholders including general public in the wake of project implementation. The issues /concerns raised during the deliberations of the community consultation were adequately addressed by Resource Persons to enable them to build consensus on their possible solutions and extend cooperation and support during and after the project implementation.

SI. No.	Date	Location	No. of Wards Included	No. of Participants	Issues/Queries Raised ¹⁷	Photographs
3	12 th Feb, 2015	Global Mathematic s Coaching, University Road, Company Bagh, Durga Mandir, Ward No. 13	Ward No. 10,11,13, 14,15	Total-60 Male-49 Female-11	 Reasons for delay in project implementation. Mode of user charge collection. Compulsory or voluntary connection 	
4	25 th Marc h, 2015	Conference Hall, Divisional Commission er, Bhagalpur	Ward No. 17,19,20, 21,22	Total-29 Male-23 Female-6	 Process and basis of tariff fixation for water consumers. Subsidy for the poor households belonging to vulnerable social category. Work schedule of actual construction work. 	
5	29 th April, 2015	Community Hall, Budhanath Mandir Ward No. 18	Ward No. 16,18,42, 43	Total-63 Male-43 Female-20	 Need for early implementation of the project. User charge 	The state of the s

SI. No.	Date	Location	No. of Wards Included	No. of Participants	Issues/Queries Raised ¹⁷	Photographs
6	28 th May, 2015	Girls Middle School, Badi Khanjarpur, Near Masjid Ward No. 24	Ward No. 23, 24, 25, 26,27	Total-52 Male-36 Female-16	 Mode and basis of fixing water tariff O&M of Public stand posts. Subsidy for the poor households belonging to vulnerable social category. 	
7	18th June, 2015	Conference Hall of Hotel Paradise, Jail Road, Jawaripur, Ward No. 30	Ward No. 28, 29, 30, 31, 32	Total-59 Male-48 Female-11	 Quality of water to be supplied under the project. Mode and basis of fixing water tariff Subsidy for the poor households belonging to vulnerable social category. 	
8	28 th July, 2015	Community Hall of Poddar Dharamshal a Ward No. 35	Ward No. 33, 34, 35, 36, 37	Total-50 Male-50 Female-Nil	 Completion time of the project. User charge and Subsidy for the poor household 	To the second of

APPENDIX 8: Sample Monitoring TEMPLATE

SI. No.	Resettlement Plan Activities	Completed Y/N	Remarks
A. Pre	e-Construction Activities and Resettlement Plan Activities		
1	Approval of final Resettlement Plan by ADB prior to contract award		
2	Disclosure of final Resettlement Plan on ADB and EA websites		
3	Circulation of summary RP in two local languages to all stakeholders		
A. Re	settlement Plan Implementation		
1	Grievance Redress Cell and Committee established		
2	Entitlements and grievance redress procedure disclosed		
3	Finalization of list of APs, vulnerable APs and		
	compensation/assistance/allowances due		
4	Finalization of list of roads for full or partial closure; mitigation measures proposed		
5	Affected persons received entitlements as per amounts and program specified in RP		
6	Payment of compensation, allowances and assistance (No. of APs)		
7	Arrangements for temporary rental accommodation for APs facing		
	relocation		
8	Additional assistance for vulnerable households given (No. of vulnerable		
	APs)		
9	Livelihood arrangements provided to vulnerable APs		
10	Reinstallation of affected common facilities		
11	Grievances		
	No. of grievances registered		
	No. of grievances redressed		
	Outstanding complaints		
	Disclosure of grievance redress statistics		
12	Consultation, participation and disclosure as per Plan		
C. Mc	onitoring		
1	Survey on socio-economic status of APs (including vulnerable APs)		
	completed and compared with baseline survey results		
2	Survey on satisfaction levels of APs with RP implementation completed		
D.	Labor		
1	Implementation of all statutory provisions on labor like health, safety,		
	welfare, sanitation, and working conditions by Contractors. Ensuring no child labour used etc.		
2	Equal pay for equal work for men and women		
		<u> </u>	

NOTE: Where applicable, the information provided in the table should be supported by detailed explanatory report, receipts and other details.

APPENDIX 9: Detailed Measurement Survey

Objective of the study

To conduct and document **Detailed Measurement Survey** (DMS) to identify any disruption in carrying out income generating activity / livelihood and / or property and the corresponding loss to the Affected Persons (APs) - Permanent Affected Person(PAP) and Temporary Affected Person (TAP) due to the commissioning of the proposed Bhagalpur Water Supply Project 1.

Period of Census Survey - November 05, 2015 - November 10, 2015

Team composition

The team members entrusted with the task to conduct the DMS is given below in Table-1

Table 1

Team Members	Contact Number			
Mr. Mohit Kumar	7561903616			
Mr. Ajit	9709424203			
Mr. Prabal Pratap Singh	8877547751			
Contractor				
Mr. Hasimuddin Faridi	7282000804			
Mr. Manju BC	7282000805			
Mr. Braj Mohan Singh	7282000806			
Mr. Sanjib	7282000815			
Mr. Nagendra TM	7282000816			
Mr. Nanjun Das	7282000817			
	Mr. Mohit Kumar Mr. Ajit Mr. Prabal Pratap Singh r Mr. Hasimuddin Faridi Mr. Manju BC Mr. Braj Mohan Singh Mr. Sanjib Mr. Nagendra TM			

Methodology

Three teams (Table 2) were constituted in the following manner-

Table 2

Particulars	Team Members (Contractor)	Supervised by
Team 1	Mr. Brajmohan Singh, Mr. Manju BC	Mr. Prabal Pratap Singh
Team 2	Mr. Sanjiv, Mr. Nanjun Das	Mr. Ajit
Team 3	Mr. Faridi , Mr. Nagendra	Mr. Mohit Kumar

Mr. Faridi coordinated on behalf of the contractor. The proposed distribution network layout plan was made available by him. Though the earlier plan was for around 47 km. of proposed pipeline laying in the Brarai area. The PD PIU through his email dated – Nov. 06, 2015 instructed to instead use the latest revised layout/ TMS plan for conducting the detailed measurement survey to update the RP. The copy of the revised layout plan was then obtained from contractor and the DMS was conducted accordingly. The revised layout plan for Barari area has been designed for around 30 kms. of the distribution network while the same for Thakurwari, Warsaliganj area is for around 25 kms. of pipeline laying works . The proposed distribution pipe laying works in both the Housing Board as well as the Thakurwari area has been divided into three DMAs each. The Layout plan of Over Head Service Reservoirs have been appended in Annexure 1. The respective proposed Distribution Network SLD used for conducting DMS is given below (Table 3) —

Table 3



The team members were first oriented on various hardware and software aspects of the proposed DMS activities. They were also oriented on the objective and methodology to be followed while capturing the details and precautions to be followed.

The distribution network has been designed in the middle of the road and the exact alignment is to be fixed keeping the criteria of ensuring no or minimal negative impact to community as well as local permanent and/ or temporary or movable shopkeepers, vendors etc. It was decided to fix the alignment using the wisdom of the engineers carrying out the exercise and then identify the negative impacts if any. Please refer to Annexure -3 for the Alignment details.

Three teams were constituted and one team each was allocated one DMA each at both the locations. The team and the respective DMA composition is given below in Table 4 –

Table 4

SI.	Team	Housing Board Colony, Barari	Thakur Bari, Warsaliganj
No.			
1	Team 1	DMA1	DMA 2
2	Team 2	DMA 3	DMA 1
3	Team 3	DMA 2	DMA 3

Each team walked along all the proposed lanes and by lanes, as per the distribution network SLD, in their respective designated areas to scan for and identify any permanent and/ or temporary negative impact arising due to the proposed pipe laying work. Special care was also accorded to avoid negative impacts wherever possible by proposing the alignment on either left or right RoW. Please refer to Annexure 2 for photographs.

Outcome

DMS conducted for the proposed distribution pipe lines

- i. Most of the by lanes are very narrow in the designated DMAs in Housing Board Colony and Warsaliganj area.
- ii. Houses have been constructed at the shoulder of the by lane.
- iii. There are waste water drains on both sides of the main road.
- iv. No unavoidable temporary as well as permanent loss to livelihood and property is envisaged. The following table (Table 5) presents the summary of the DMS-

Table 5

SI. No.	Particular	PAP	TAP	Remarks
1	Housing Board Colony, Barari	0	0	Many temporary vegetable, fish and fruit vendors, eateries etc. do carry out the selling activities every day on both sides of the RoW at the vegetable market during 3 pm – 9 pm throughout the year.
2	Thakurwari, Warsaliganj	0	0	At Mirjan Haat, many temporary movable shops have come up. They usually throng the area during festival times. Besides, many temporary vegetable and fruit vendors do carry out the selling activity on the covered plank over the drain throughout the year.

DMS conducted at the proposed OHT sites

The following table (Table 6) presents the summary of the DMS-

Table 6

SI.	Name of OHSR	No. of	No. of	Remarks
No.		PAPs	TAPs	
1	Housing Board Colony, Barari	218	0	
2	WarsaliganjThakurbari	0	0	
3	Tilkamanjhi University	0	0	4 fruit bearing trees- one Mango tree and three Lichi trees and one Palm tree may be cut due to the proposed civil works.

Recommendation-

At the Barari Vegetable market, selling activities do commence during 3 pm to 9 pm. The civil work is recommended to be finished by 2 pm to ensure no or minimal disruption to the vendor as well as local community. The shopkeepers must be served advance notice and are provided any assistance, if required. At Mirjan Haat location, the vendors have their temporary movable shops on the plank over the drain on both the sides. Special care should be accorded to ensure proper access during the commissioning of the civil work. At the same time. The shopkeepers must be served advance notice and provided any assistance, if required.

Special care should be given to ensure proper access by providing planks etc. to schools and religious places and the civil construction work shall be taken up during night times or on holidays only.

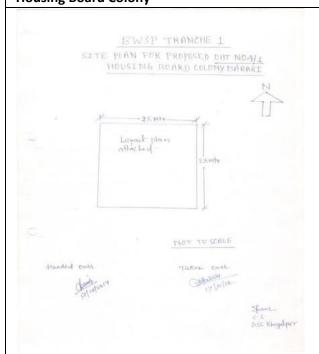
The ADB's SPS 2009 emphasises on replacing what is lost. Therefore, the cost of the constructing hut and cattle shed of equivalent size / dimension need to be ascertained. The cost may be ascertained by the DSC engineers. The Affected Family has a right over the salvage material. Depreciation should not be taken into account while estimating the cost

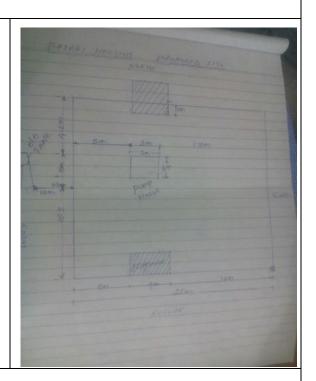
The younger son of Ms. Asha Devi should be trained with relevant skills and employed as caretaker at the new facility being created there (OHSR).

¹⁸ For details of the DMS, please refer to Annexure -9

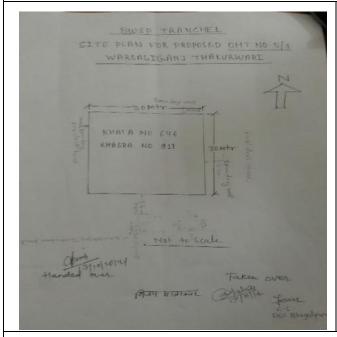
Annexure-1 Layout plan of Over Head Service Reservoirs

Housing Board Colony

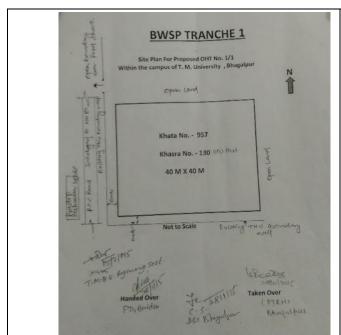


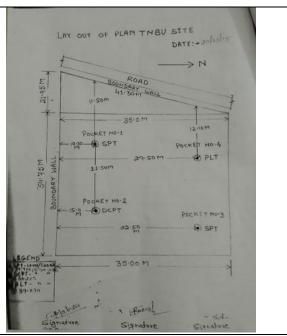


Warsaliganj Thakurwari

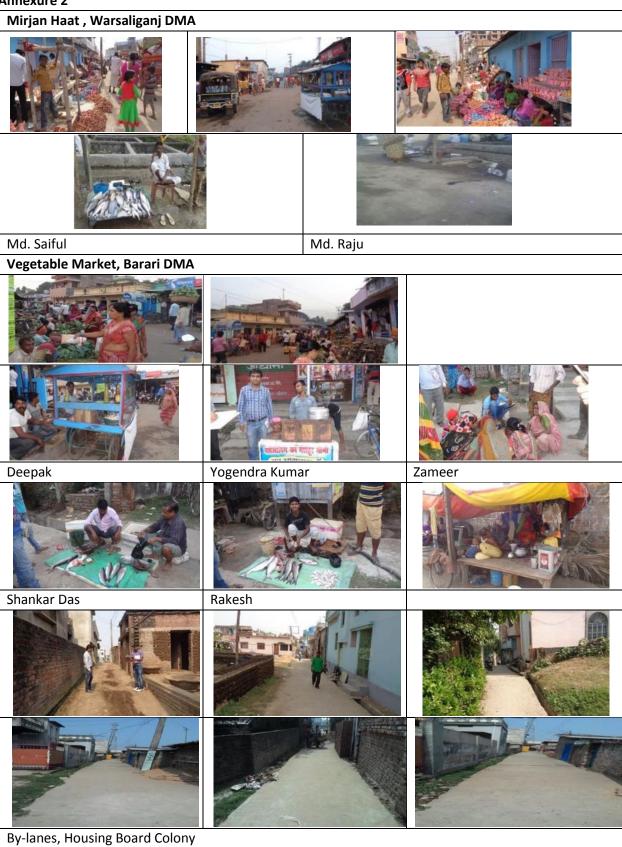








Annexure 2



Annexure 3: Pipe Alignment details represented in binary system **Housing Board Zone DMA wise Alignment Details**

		DM	A-1								DM.	A 2							DIV	IA 3			
SI. No.	N	lode	_		ents R) ¹⁹	Diameter	Pipe Length	SI. No.	No	ode	Alig	nmer	nts	Diameter	Pipe Length	SI. No.	N	Node	Alig	gnme	nts	Diameter	Pipe Length
	S ³⁷	E ²⁰	L	С	R	Dia	_		S	Е	L	С	R	Dia	_		S	E	L	С	R	Dia	
1	13	844	0	0	1	100	558	1	414	d'	1	0	0	100	325	1	43	52	1	0	0	100	115
2	47	133	0	0	1	100	272	2	616	518	0	1	0	100	170	2	19	32	1	0	0	100	262
3	48	70	0	0	1	150	258	3	525	566	0	1	0	100	34	3	32	49	1	0	0	100	419
4	73	2	1	0	0	100	140	4	642	553	0	1	0	100	171	4	49	19	1	0	0	100	297
5	91	133	0	0	1	100	106	5	663	600	0	1	0	100	209	5	49	20	1	0	0	100	258
6	96	10	1	0	0	100	112	6	706	633	0	1	0	100	174	6	19	24	1	0	0	100	83
7	63	179	0	0	1	100	83	7	722	711	0	1	0	100	120	7	23	31	0	0	1	100	90
8	68	236/1	1	0	0	100	296	8	517	763	1	0	0	200	288	8	38	25	0	0	1	100	58
9	133	200	0	1	0	100	120	9	763	795	1	0	0	150	189	9	45	34	0	0	1	100	90
10	157	227	1	0	0	100	113	10	795	801	1	0	0	100	281	10	22/1	36	0	0	1	100	105
11	198	394	1	0	0	100	115	11	795	766	1	0	0	150	22	11	32	46	0	0	1	100	113
12	215	469	1	0	0	100	119	12	795	591	0	0	1	100	_	12	48	35	1	0	0	100	92
13	236	606	1	0	0	100	113	13	766	789	0	0	1	100	81	3	47/1	35	0	0	1	100	98
14	469	679	1	0	0	100	135	14	789	740	1	0	0	100	58	14	50	45	0	0	1	100	174
15	340	598	1	0	0	100	46	15	746	739	1	0	0	100	104	15	47	53	0	0	1	100	45
16	336	48	0	0	1	100	417	16	710	740	1	0	0	100	81	16	39	47	1	0	0	100	57
17	64	509/1	1	0	0	200	384	17	676	752	1	0	0	100	177	17	52	42	0	0	1	100	91
18	48	97	1	0	0	200	113	18	650	610	1	0	0	100	63	18	152	221	1	0	0	100	503
19	172	249	1	0	0	100	423	19	637	676	1	0	0	100	91	19	153	205	0	0	1	100	109
20	509	282	1	0	0	100	72	20	652	665	1	0	0	100	121	20	165	119	0	0	1	100	127
21	284	742	1	0	0	100	113	21	604	546	1	0	0	100	103	21	177	165	0	0	1	100	131

L-Left, C-Center and R- Right
 S- Node starting Number
 E- Node Ending Number

22	777	18414	1	0	0	100	64	22	593	613	1	0	0	100	32	22	137	106	1	0	0	100	110
23	182	545	1	0	0	100	172	23	612	560	1	0	0	100	65	23	106	102	1	0	0	100	83
24	242	545	0	0	1	100	92	24	585	587	1	0	0	100	86								
25	379	632	0	0	1	100	56	25	591	766	0	0	1	100	209								
26	457	678	1	0	0	100	72	26	526	529	1	0	0	100	96								
27	545	671	1	0	0	100	73	27	523	554	1	0	0	100	235								
28	110	166	1	0	0	100	259	28	526	350	1	0	0	100	209								
29	78	101	1	0	0	100	91	29	316	399	1	0	0	100	97								
30	193	254	1	0	0	200	378	30	435	316	1	0	0	100	177								
31	254	356	1	0	0	100	150	31	523	435	1	0	0	100	128								
32	325	307	0	1	0	100	66	32	435	445	1	0	0	1,00, 200	302								
33	254	244	0	1	0	200	95	33	356	331	1	0	0	100	159								
34	150	194	0	0	1	100	129	34	461	322	1	0	0	100	184								
35	212	136	0	0	1	100	51	35	322	297				100ci	53 (old line								
36	189	146	0	1	0	100	123	36	322	337				100ci	62 (old line								
37	180	134	0	0	1	100	204	37	425	231	1	0	0	100	56								
38	126	105	0	0	1	100	32	38	445	667				200ci	(old line)								
39	170	169	0	1	0	100	254	39	547	847	1	0	0	100	143								
40	206	163	1	0	0	100	69	40	464	779	1	0	0	100	109								
41	228	356	1	0	0	100	123	41	317	682	1	0	0	100	202								
42	275	173	1	0	0	100	114	42	276	423	1	0	0	100	158								
43	237	185	0	1	0	100	90	43	233	416	1	0	0	100	126								
44	288	216	0	1	0	100	137	44	230	488	1	0	0	100	179								
45	222	319	0	0	1	100	103	45	658	403	1	0	0	100									
46	246		0	0	1	100	75	46	391	369	1	0	0	100	106								

		1							1	1					I	ı	ı	-	1		1
47	296	344	0	0	1	100	294	47	337	514	1	0	0	100	177						
48	218	450	0	0	1	100	168	48	584	630	1	0	0	100	216						
49	97	193	1	0	0	300	236	49	592	562	1	0	0	100	53						
50	193	435	0	0	1	100	682	50	562	548	0	1	0	100	126						
51	435	845	0	0	1	100	454	51	562	612	1	0	0	100	136						
52	602	840	0	0	1	100	128	52	589	558	0	1	0	100	94						
53	520	841	0	0	1	100	121	53	558	733	1	0	0	100	109						
54	445	842	0	1	0	100	98	54	657	847	1	0	0	100	205						
55	530	424	0	1	0	100	64	55	224	382	0	0	1	100	520						
56	530	424	0	1	0	100	39	56	224/1	312/1	1	0	0	100	48						
57	426	502	0	1	0	100	43	57	312/1	314	0	0	1	100	128						
58	48	97	1	0	0	100	218	58	312	453	0	0	1	100	59						
59	526	529	1	0	0	100	96	59	373	415	0	1	0	100	60						
60	523	554	1	0	0	100	235	60	355	437	1	0	0	100	127						
61	526	350	1	0	0	100	209	61	462	454	0	0	1	100	229						
62	316	399	1	0	0	100	97	62	203	452	1	0	0	100	234						
63	435	316	1	0	0	100	177	63	452	599	1	0	0	150	228						
64	523	435	1	0	0	100	128	64	443	345	1	0	0	150	185						
65	435	445	1	0	0	1,00 ,200	302	65	269	258	0	0	1	100	203						
66	356	331	1	0	0	100	159	66	225	232	0	0	1	100	252						
67	461	322	1	0	0	100	184	67	492	417	0	0	1	100	224						
68	322	297				100c i	53 old line	68	459	528	0	0	1	100	214						
69	322	337				100c i	62 (old line)	69	490	528	1	0	0	100	159						
70	425	231	1	0	0	100	56	70	506	581	1	0	0	100	149						

71	445	667				200c i	(old line)	71	505	565	1	0	0	100	130							
72	547	847	1	0	0	100	143	72	551	522	0	0	1	100	68							
73	464	779	1	0	0	100	109	73	552	507	0	0	1	100	68							
74	317	682	1	0	0	100	202	74	528	746	1	0	0	100	745							
75	276	423	1	0	0	100	158	75	583	660	0	0	1	100	138							
76	233	416	1	0	0	100	126	76	597	660	0	0	1	100	101							
77	230	488	1	0	0	100	179	77	660	673	1	0	0	100	212							
78	658	403	1	0	0	100		78	753	616	1	0	0	100	275							
79	391	369	1	0	0	100	106	79	620	646	1	0	0	100	189							
80	337	514	1	0	0	100	177	80	746	808	1	0	0	100	0							
81	584	630	1	0	0	100	216								127							
82	592	562	1	0	0	100	53	82	824	821	0	0	1	100	96							
83	562	548	0	1	0	100	126	83	820	809	0	0	1	100	52							
84	562	612	1	0	0	100	136	84	824	817	0	0	1	100	0							
85	589	558	0	1	0	100	94															
86	558	733	1	0	0	100	109															
87	657	847	1	0	0	100	205															
Total I	ength (n	neters)					13507	Total I	Length (r	neters)			•		12256	Total	Length	(meters)	,	•		3510

Thakurbari Zone DMA wise Alignment Details

			DMA				Details			DMA 2								DMA 3					
SI. No.	Node		Alig (L/C		ents	Diameter	Pipe length	SI. No.	Node		Ali	gnme	ents	Diameter	Pipe length	SI. No.	Node		Ali	ignm	ents	Diameter	Pipe length
	S	E	L	С	R	Dia	Pipe l		S	E	L	С	R	Dia	Pipe		S	E	L	С	R	Dia	Pipe
1	509	839	1	0	0	200	961	1	803	419	0	0	1	200	421	1	24	28	0	0	1	150	297
2	839	712	1	0	0	100	344	2	803	796	0	0	1	100	47	2	48	24	0	0	1	100	59
3	712	749	0	0	1	100	105	3	657	785	0	0	1	100	214	3	22	20	1	0	0	100	82
4	763	755	0	0	1	100	194	4	799	804	1	0	0	100	40	4	25	14	0	1	0	100	82
5	836	817	1	0	0	100	155	5	795	794	1	0	0	100	42	5	86	12	0	0	1	100	88
6	817	622	0	0	1	100	297	6	791	687	1	0	0	100	170	6	313	15	1	0	0	100	139
7	817	822	0	0	1	100		7	760	561	1	0	0	100	133	7	429	252	1	0	0	100	146
8	822	574	0	0	1	100	1238	8	728	428	1	0	0	100	228	8	436	98	0	0	1	100	159
9	801	808	0	0	1	100	21	9	517	581	1	0	0	100	86	9	347	16	1	0	0	100	155
10	822	828	0	0	1	100	26	10	547	445	1	0	0	100	97	10	296	16	1	0	0	100	179
11	828	818	0	0	1	100	64	11	462	640	1	0	0	100	149	11	141	9	1	0	0	100	150
12	830	792	1	0	0	100	57	12	596	377	0	0	1	100	214	12	24	7	0	0	1	100	156
13	839	832	1	0	0	200	148	13	478	446	1	0	0	100	39	13	58	5	0	0	1	100	179
14	832	831	1	0	0	100	25	14	427	406	1	0	0	100	30	14	402	27	1	0	0	100	501
15	832	802	0	0	1	100	74	15	445	420	1	0	0	100	199	15	296	616	1	0	0	100	116
16	809	827	1	0	0	100	107	16	513	451	1	0	0	100	184	16	347	750	1	0	0	100	130
17	816	821	1	0	0	100	60	17	451	353	0	0	1	100	212	17	413	548	0	0	1	100	113
18	814	810	1	0	0	100	145	18	393	343	1	0	0	100	132	18	317	333	0	1	0	100	78
19	819	754	1	0	0	100	210	19	371	410	1	0	0	100	102	19	86	183	0	0	1	100	67
20	812	806	0	0	1	100	15	20	351	358	1	0	0	100	113	20	28	339	0	0	1	100	178
21	704	754	1	0	0	100	68	21	451	437	1	0	0	100	67	21	213	529	0	1	0	100	105
22	704	747	1	0	0	100	158	22	438	437	1	0	0	100	39	22	213/1	403	0	1	0	100	46

24	23	754	792	1	0	0	100	159	23	434	468	1	0	0	100	47	23	229	227	0	1	0	100	66
26 719 734 0 0 1 100 35 26 364 433 0 0 1 100 20 10 100 228 27 433 456 1 0 0 40 21 100 100 11 100 100 11 100 100 11 100 100 11 100 100 100 11 100 100 100 100 11 100 100 100 100 100 100 100 100 100 100 100	24	784	788	0	0	1	100	15	24	439	394	1	0	0	100	45	24	298	380	0	1	0	100	44
27 746 573 0 0 1 100 228 27 433 456 1 0 0 40 27 326 323 0 0 1 100 20 28 565 575 0 0 1 100 85 28 457 532 1 0 0 100 46 28 302 302/1 0 1 0 10 20 29 568 567 0 0 1 100 15 29 433 571 0 0 100 120 100 11 0 0 100 51 29 311 259 700 1 0 100 12 30 294 309/1 0 1 0 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	25	787	780	0	0	1	100		25	407	404	1	0	0	100	56	25	402	330	1	0	0	100	70
28 565 575 0 0 1 100 85 28 457 532 1 0 0 100 46 28 302 302/1 0 1 0 100 120 433 571 0 0 1 100 11 29 311 264 0 1 0 100 17 30 752 783 1 0 0 100 110 31 38 392 1 0 0 0 0 1 100 0 31 759 768 1 0 0 100 125 32 179 76 1 0 0 100 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 100 100<	26	719	734	0	0	1	100	35	26	364	433	0	0	1	100	130	26	402	330/1	1	0	0	100	40
29 568 567 0 0 1 100 15 29 433 571 0 0 1 100 51 29 311 264 0 1 0 10 17 30 752 783 1 0 0 10 110 120 30 375 417 1 0 0 112 30 294 329 0 0 1 100 0 31 759 708 1 0 100 110 31 38 392 70 0 100 66 32 294 294 294 294 294 20 0 1 100 0 100 0 100 100 0 100 0 0 0 10 0 100 33	27	746	573	0	0	1	100	228	27	433	456	1	0	0	100	40	27	326	323	0	0	1	100	116
30 752 783 1 0 0 100 120 30 375 417 1 0 100 112 30 294 329 0 0 1 100 0 31 759 708 1 0 0 110 31 38 392 1 0 100 64 31 326 294 309/1 0 1 100 0 32 685 704 1 0 0 100 42 33 92 770 0 1 0 1 0 0 10 64 33 294 215 0 1 0 10 64 33 294 215 0 1 0 10 100 64 33 92 70 0 1 0 100 33 34 39 70 0 1 0 100 30 31 31 31	28	565	575	0	0	1	100	85	28	457	532	1	0	0	100	46	28	302	302/1	0	1	0	100	20
31 759 708 1 0 0 100 110 31 38 392 1 0 0 665 704 1 0 0 100 666 32 294 309/1 0 1 100 0 33 710 706 1 0 10 66 32 294 309/1 0 1 0 100 64 34 709 707 1 0 0 100 72 34 39 70 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0 0	29	568	567	0	0	1	100	15	29	433	571	0	0	1	100	51	29	311	264	0	1	0	100	17
32 685 704 1 0 0 100 125 32 179 76 1 0 0 100 66 32 294 309/1 0 1 0 100 48 33 710 706 1 0 100 42 33 92 70 0 1 0 100 33 294 215 0 1 0 100 646 34 709 707 1 0 100 100 72 34 39 70 0 1 0 100 33 318 299/1 0 0 100 82 35 646 653 1 0 10 165 34 14 0 100 100 100 20 36 666 66 1 0 10 101 30 10 0 100 40 10 100 40 <t< td=""><td>30</td><td>752</td><td>783</td><td>1</td><td>0</td><td>0</td><td>100</td><td>120</td><td>30</td><td>375</td><td>417</td><td>1</td><td>0</td><td>0</td><td>100</td><td>112</td><td>30</td><td>294</td><td>329</td><td>0</td><td>0</td><td>1</td><td>100</td><td>0</td></t<>	30	752	783	1	0	0	100	120	30	375	417	1	0	0	100	112	30	294	329	0	0	1	100	0
33 710 706 1 0 0 100 42 33 92 70 0 1 0 100 53 33 294 215 0 1 0 100 64 34 709 707 1 0 0 100 72 34 39 70 0 1 0 100 33 34 318 295 1 0 0 100 54 35 646 653 1 0 0 100 656 59 0 1 0 100 35 36 111 62 0 0 10 20 100 20 37 160 30 10 20 30 30 30 110 60 10 0 10 30 30 10 100 40 10 40 10 40 10 40 10 40 10 40 10	31	759	708	1	0	0	100	110	31	38	392	1	0	0	100	64	31	326	294	0	0	1	100	0
34 709 707 1 0 0 100 72 34 39 70 0 1 0 100 132 34 318 295 1 0 0 100 54 35 646 653 1 0 0 100 65 35 143 149 0 1 0 100 39 35 318 299/1 0 0 1 00 50 36 646 662 1 0 100 161 37 165 34 0 1 0 100 160 160/1 10 0 10 10 2 0 10<	32	685	704	1	0	0	100	125	32	179	76	1	0	0	100	66	32	294	309/1	0	1	0	100	80
35 646 653 1 0 0 100 61 35 143 149 0 1 0 100 39 35 318 299/1 0 0 1 0 0 1 100 54 36 646 662 1 0 0 100 165 55 59 0 1 0 100 160 10 1 100 20 37 665 d' 1 0 100 161 37 165 34 0 1 0 100 90 31 100 100 100 30 38 673 682 1 0 100 102 39 130 104 0 100 100 100 100 100 100 100 100 100 100	33	710	706	1	0	0	100	42	33	92	70	0	1	0	100	53	33	294	215	0	1	0	100	64
36 646 662 1 0 0 100 74 36 56 59 0 1 0 100 35 36 111 62 0 0 1 100 20 37 665 d' 1 0 10 161 37 165 34 0 1 0 100 96 37 160 160/1 0 1 0 10 30 38 673 682 1 0 100 141 38 133 151 0 1 0 100 100 100 39 130 104 0 1 0 100 40 100 100 40 100 <t< td=""><td>34</td><td>709</td><td>707</td><td>1</td><td>0</td><td>0</td><td>100</td><td>72</td><td>34</td><td>39</td><td>70</td><td>0</td><td>1</td><td>0</td><td>100</td><td>132</td><td>34</td><td>318</td><td>295</td><td>1</td><td>0</td><td>0</td><td>100</td><td>82</td></t<>	34	709	707	1	0	0	100	72	34	39	70	0	1	0	100	132	34	318	295	1	0	0	100	82
37 665 d' 1 0 0 100 161 37 165 34 0 1 0 160 160/1 0 1 0 100 30 38 673 682 1 0 0 100 141 38 133 151 0 1 0 100 46 C 1 0	35	646	653	1	0	0	100	61	35	143	149	0	1	0	100	39	35	318	299/1	0	0	1	100	54
38 673 682 1 0 0 100 141 38 133 151 0 1 0 100 46 .	36	646	662	1	0	0	100	74	36	56	59	0	1	0	100	35	36	111	62	0	0	1	100	20
39 Image: red bit of the color	37	665	d'	1	0	0	100	161	37	165	34	0	1	0	100	96	37	160	160/1	0	1	0	100	30
40 644 673 1 0 0 100 40 104 33 0 1 0 100 44	38	673	682	1	0	0	100	141	38	133	151	0	1	0	100	46								
41 683 630 1 0 0 100 97 41 81 103 0 1 0 100 28	39			1	0	0	100	102	39	130	104	0	1	0	100	73								
42 630 606 1 0 0 100 46 42 102 125 0 1 0 100 26 <td< td=""><td>40</td><td>644</td><td>673</td><td>1</td><td>0</td><td>0</td><td>100</td><td></td><td>40</td><td>104</td><td>33</td><td>0</td><td>1</td><td>0</td><td>100</td><td>44</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	40	644	673	1	0	0	100		40	104	33	0	1	0	100	44								
43 499 470 1 0 0 100 128 43 102 164 0 1 0 100 35 8 1 0 0 100 154 44 51 57 0 1 0 100 91	41	683	630	1	0	0	100	97	41	81	103	0	1	0	100	28								
44 598 498 1 0 0 100 154 44 51 57 0 1 0 100 91	42	630	606	1	0	0	100	46	42	102	125	0	1	0	100	26								
45 579 598 1 0 0 100 35 45 57 881 0 1 0 100 40 90/1 0 100 47 100 100 115 46 51 90/1 0 1 0 100 115 46 51 90/1 0 1 0 100 100 47 100 100 47 419 369 0 0 1 100 100 100 48 443 391 0 0 1 100 60 1 100 100 44 49 369 384 0 1 100 25 1	43	499	470	1	0	0	100	128	43	102	164	0	1	0	100	35								
46 598 521 0 1 0 100 115 46 51 90/1 0 1 0 100 47 100 47 100 100 47 419 369 0 0 1 100 </td <td>44</td> <td>598</td> <td>498</td> <td>1</td> <td>0</td> <td>0</td> <td>100</td> <td>154</td> <td>44</td> <td>51</td> <td>57</td> <td>0</td> <td>1</td> <td>0</td> <td>100</td> <td>91</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	44	598	498	1	0	0	100	154	44	51	57	0	1	0	100	91								
47 566 519 0 0 1 100 172 47 419 369 0 0 1 100 235	45	579	598	1	0	0	100	35	45	57	881	0	1	0	100	40								
48 574 515 0 0 1 100 160 48 443 391 0 0 1 100 60 1 100 1 <	46	598	521	0	1	0	100	115	46	51	90/1	0	1	0	100	47								
49 597 497 0 0 1 100 44 49 369 384 0 1 0 100 25	47	566	519	0	0	1	100	172	47	419	369	0	0	1	100	235								
	48	574	515	0	0	1	100	160	48	443	391	0	0	1	100	60								
50 531 589 1 0 0 100 91 50 384 209 1 0 0 100 111	49	597	497	0	0	1	100	44	49	369	384	0	1	0	100	25								
	50	531	589	1	0	0	100	91	50	384	209	1	0	0	100	111								

51	582	545	0	0	1	100	154	51	366	266	0	0	1	100	73						
52	541	538	1	0	0	100	30	52	375	286	0	0	1	100	66						
53	534	533	1	0	0	100	37	53	388	237	1	0	0	100	119						
54	642	648	1	0	0	100	88	54	260	292	0	0	1	100	62						
55	594	636	1	0	0	100	75	55	290	182	0	1	0	100	92						
56	514	470				100	Existing	56	415	306/1	0	0	0	100	171						
57	519	648	1	0	0	100	110														
58	501	530	0	0	1	100	80														
59	477	471	1	0	0	100	42														
60	515	647	0	0	1	100	135														
61	479	477	1	0	0	100	39														
62	607	460	1	0	0	100	43														
63	485	618	1	0	0	100	182														
64	464	463	1	0	0	100	21														
65	545	593	1	0	0	100	187														
66	585	555	1	0	0	100	24														
67	599	558	0	0	1	100	29														
68	601	558	1	0	0	100	119														
69	543	506	1	0	0	100	30														
70	558	610	1	0	0	100	101														
71	490	637	1	0	0	100	133														
72	487	584	0	1	0	100	87														
73	493	619	1	0	0	100	233														
74	509	614	1	0	0	100	226														
75	639	549	1	0	0	100	59														
Total Le	ength (m	eters)					9323	Total I	ength (ı	meters)					5414	Total Le	ength (m	eters)			3908