

Welcome

Activities and Achievements
NORTH EASTERN REGION CAPITAL
CITIES DEVELOPMENT
INVESTMENT PROGRAM

Gangtok
(April, 2014)

Project outlays at a glance

(All figures Rs in millions)

SECTOR	TOTAL OUTLAY	TRANCHE 1	TRANCHE 2	TRANCHE 3	PROJECTS APPROVED
Water Supply	338.30	147.60	23.93		386.90
Solid Waste Management	75.70		110.90		110.90
Sewerage	785.60			785.60	
DSMC	134.40				134.40
IDC	48.90				48.90
Taxes, Project Management, Administrative Contingency	856.00				826.00
TOTAL	2208.90	147.60	124.83	785.6	1507.1

NERCCDIP, Gangtok Projects

No.	Tranche	Particulars	Present Status	Duration
1	Tranche 1	GTK/Tranche 1-Water Supply Subproject 1	Complete	18 Months
2.1	Tranche 2	GTK/Tranche 2-Water Supply Subproject 2		
		GTK/T 2-WA 2 Lot 1	Work Awarded	24 Months
		GTK/T 2-WA 2 Lot 2	Work Awarded	24 Months
		GTK/T 2- WA 2 Water Meters and Water Supply Service Connections	Engineer's Estimate submitted to MOUD for approval	
2.2	Tranche 2	GTK/Tranche 2-Solid Waste Management	Work Awarded	24 Months
3.1	Tranche 3	GTK/Tranche 3-Sewerage Subproject 1	Detailed Project Report Submitted to MOUD(Rs 48.78 Crore)	
3.2	Tranche 3	GTK/Tranche 3-Water Supply Subproject 3	Proposal costing Rs 48.01 Crore is about to be submitted	
3.3	Tranche 3	GTK/Tranche 3- Solid Waste Management Subproject	Proposal costing Rs.4.12 Crore is about to be submitted	

Tranche 1. Water Supply

Short Description of the Project:

Aims to provide full water supply coverage to two wards Burtuk and Chandmari, located at higher elevations of GMC. Treated water is sourced from one of the clear water reservoirs at the WTP site of GWSS, is pumped to a newly constructed GLSR of 11.55 lakh litre capacity at Bulbuley on the AIR Transmitter Station Road in Chandmari Ward. Then water is distributed through a distribution net work of 36 km of pipes of sizes varying from 250 mm to 32 mm.

- **Salient features of NERCCDIP Water Supply Project, Gangtok:**
 - **SCOPE:** Providing water supply facilities to presently uncovered elevated areas of Burtuk and partially covered Chandmari Wards
 - **PROJECT COMPONENTS:** Pump House at Selep
WTP/Pump sets: 3 Nos. of 50 HP; working 2 at a time to pump water to a total head of 101 m at a rate of discharge of 1930 lpm/Pumping main: DI K9 200 mm of a length of 1176 m/GLSR: 11.55 lakh litre capacity/Distribution: 44.84 km comprising of DI, PE and GI Pipes of diameters ranging from 250 to 32 mm/Metering: 4 nos. of Electro Magnetic Bulk Flow Meters along Pumping and Distribution mains
 - **PROJECT COST:** 142.62 million
 - **IMPLEMENTING AGENCY:** SIPMIU, Gangtok assisted by DSMC
 - **OPERATION AND MAINTENANCE:** WSPHED /Gangtok Municipal Corporation

Status of Tranche 1/ Water Supply Sub Project (GTK-WA-1)

- Name of work: Supplying and laying of distribution network to Burtuk and Chandmari Wards, Construction of pump house, Construction of 11.55 lakh litre capacity GLSR and allied works at Gangtok
- Cost of Contract: Rs 149.47 Million
- Name of Contractors: Joint venture of M/s A K Engineers-B M Engineering and Construction, Santoshpur Avenue, Kolkata
- Period of completion: 18 months
- Scheduled date of completion: 19.03.2013
- Present status: All the components completed.
- Up to date amount of bills paid: Rs 149.4 Million

Work in Tranche 1, Component wise progress

No.	Component	Work to be done	Work done
2.0	Construction of Pump house	Completion in full	Completed
2.1	Electrification, supply and fixing of panel boards, meters, interior and exterior lighting	Completion in full	Completed
2.2	Supply and installation of pump sets and trial run	Completion in full	Completed
2.3	Supply and fabrication of piping arrangements for pumping, supply and installation of valves, bulk water meter etc.	Completion in full	Completed
3.0	Supplying and laying of 1.1 km of 200 mm DI K9 pumping main from Selep to GLSR at Bulbuley	Completion in full	Completed

Work in Tranche 1, Component wise progress

No.	Component	Work to be done	Work done
3.1	Supply and installation of valves, construction of valve chambers	Completion in full	Completed
4.0	Construction of 11.55 lakh litre capacity GLSR at Bulbuley	Completion in full	Completed
4.1	Construction of retaining walls, Barbed wire fencing, painting of GLSR	Completion in full	Completed
5.0	Construction of Distribution network, laying, testing and jointing of pipes, supplying and fixing of valves, construction of valve chambers	Completion in full	Completed
5.1	Construction of 5 nos. of break pressure tanks	Completion in full	Completed



PUMP HOUSE AT SELEP



GLSR (11.55 LL) AT BULBULEY

Tranche 2. Water Supply

Short description of the Project

Aims to scale up the augmentation of GWSS started with the Tranche 1, to the entire city and solve the problems of scarcity of water supply experienced due to an inadequate distribution system. Will provide a new looped system with proper hydraulic zoning in place of the bunched long lengths of GI pipes laid to consumer ends through open drains and roads, from various service reservoirs.

- **Salient features of Tranche 2 Water Supply Sub Project**
- Providing new secondary water distribution network for a length of 104.10 km with proper zoning arrangements to replace the present bunched distribution system for uncovered peripheral areas
- Providing primary water distribution pipeline (feeder mains) of 150 mm diameter to a length of 3.91km to the newly proposed service reservoirs for catering hitherto uncovered peripheral areas
- Construction of 5 nos. of service reservoirs of total capacity of 33.85 LL at Sichey (4.4LL), Enchey (5.3 LL), TNSS (3.3 LL), New Press (15.5 LL), New Bazar (5.35 LL)
- Providing 39 bulk water meters
- Providing 20,000 water meters and same number of water supply service connections

Status of Tranche 2/Water Supply Sub Project (GTK-WA-2) in 2 Lots

- **Name of work:** De bunching of secondary distribution system and extending water supply to peripheral areas with allied works in Gangtok, Sikkim – Lot 1
- **Cost of contract:** Rs 176.63 m
- **Period of completion:** 24 months
- **Scheduled date of completion:** 29.08.2015
- **Contractor:** Mr. Meghraj Pradhan, Government Contractor (Class 1A), Anand Bhawan Complex, Development Area Gangtok, Sikkim
- **Present status:** Work of water tanks have begun

- **Name of work:** De bunching of secondary distribution system and extending water supply to peripheral areas with allied works in Gangtok, Sikkim – Lot 2
- **Cost of contract:** Rs 144.45 m
- **Period of completion:** 24 months
- **Scheduled date of completion:** 29.08.2015
- **Contractor:** M/s A K Infracon, 119 Santoshpur Avenue, Kolkata 700005
- **Present status of work:** Works of construction of water tanks have begun. Pipes procured and laying works started. The work got delayed for want of getting permission from BRO and PWD to lay pipes

Work in Tranche Water Supply (Lot 1)

No.	Component	
1	The works of laying pipes and allied works could not be started as the permission for laying pipes along the roads is not obtained	Works have begun .
2	The Construction water tanks have begun at Enchey site and TNS School site	Work begun .

Work in Tranche 2 Water Supply (Lot 2)

1	Supplying , laying, jointing and testing of 47.66 km of Secondary distribution network in 7 hydraulic zones including construction of anchor/thrust blocks, supply and installation of valves with their protection chambers	Pipe laying works commenced and progressing. The work got delayed for long for want of getting necessary permissions from BRO and PWD
2	Construction of Water Tanks at 2 locations (Press and Bazar)	Works started

No.3	TRANCHE -2 Supply and installation of 20,000 water meters and same number of water supply connections and their maintenance for 2 years at Gangtok	Status
	Supply and installation of 20,000 water meters and same number of water supply connections and their maintenance for 2 years at Gangtok	The cost estimate for the project is sent to MOUD for approval. Bid documents are ready and shall issue approval of estimates are obtained.

Tranche 2 Water Supply Subprojects Lots1 and 2
Proposed length of pipes to be supplied and laid

Pipes	Size in mm	Class	Lot 1	Lot 2
PE 100	50	PN 6 to PN 16	26041	16656
	75	Do	8171	7743
	90	Do	4330	5237
Sub Total			38492	29636
DI	100	K7 to K9	5021	3225
	150	Do	4018	3986
	200	Do	1978	682
	250	Do	0	122
	300	Do	0	251
	350	Do	0	50
Sub Total			11017	8316
GI	32	Medium	8199	7524
	40	Do	3119	2187
Sub Total			11318	9711
Total			60827	47663

TRANCHE 2 WATER SUPPLY SUBPROJECTS /ABSTRACT OF PIPE REQUIREMENT

Pipe Material	Length in metres
HDPE pipes(50 mm to 90 mm/ PN 6 to PN 16)	68128
DI pipes (100 mm to 350 mm/ K7 to K9)	19333
GI pipes (32 mm to 40 mm/Medium)	21029
TOTAL	108490

Tranche 2 Solid Waste Management Sub Project

Short Description of the Project

The project envisages to introduce to the city of Gangtok a practice of systematic and scientific disposal of Solid Wastes which for the present it lacks. It will bring in a system of primary collection, secondary collection, transportation and their safe disposal. The segregation of solid wastes starting at households as wet and dry wastes are transported through a system of primary and secondary collection vehicles, to the compost plant and sanitary landfill site at Martam, where the wet wastes are composted after due mechanical processes and the dry wastes again segregated into inerts and recyclables. The inerts are scientifically disposed into the landfill that is constructed in this sub project and the recyclables sent for further recycling. There is a provision for the construction of a leachate treatment plant to treat and dispose the leaching effluent from the Sanitary Landfill.

Salient features of the Solid Waste Management Sub Project

- NAME OF PROJECT: NERCCDIP-Solid Waste Management Project Gangtok
- AREA COVERED: All the 15 Municipal Wards of Gangtok comprising of a total area of 19.02 Sq km
- POPULATION COVERED: Initial (2012) – 129500/ Design Year (2017) – 145510
- DESIGNED LIFE PERIOD OF LANDFILL: 23years
- CONSTRUCTION OF RCC RETAINING WALL
- CHAINLINK FENCING WITH ENTRANCE GATE
- CONSTRUCTION OF OFFICE CUM WORKERS ROOM
- CONSTRUCTION OF TOILET BLOCK
- CONSTRUCTION OF SECURITY CABIN
- COSTRUCTION OF STORM WATER DRAIN
- APPROACH ROAD
- GREEN BELT
- PROCUREMENT OF PRIMARY AND SECONDARY VEHICLES AND EQUIPMENTS HOUSEHOLD BINS, LITTER BINS ETC.
- CONSTRUCTION OF LEACHATE TREATMENT PLANT
- CONSTRUCTION OF OBSERVATION WELL
- PROJECT COST: Rs 120.50 million(Rs 12.05 cores)
- IMPLEMENTING AGENCY: SIPMIU, Gangtok assisted by DSMC
- OPERATION AND MAINTENANCE: GANGTOK MUNICIPAL CORPORATION



CONSTRUCTION OF OFFICE BUILDING, MARTAM

Status of Tranche 2/Solid Waste Management Sub Project (GTK-SWM-1)

- Name of work: Construction of Solid Waste Landfill, Leachate Treatment Plant and Associated work in Gangtok.
- Contract price: 120.50 m(12.05 cores).
- Period of completion: 24 months.
- Scheduled date of completion: 22.09.2015.
- Name of contractors: M/s U P L Environmental Engineers Ltd .in collaboration with MDSE Mitterdeutsche Sanierugs Und Entsorgungs, Gesellschaft mbh , Germany.
- Present status of work: Achieved 12.5% progress.

Tranche2/STATUS OF SOLID WASTE MANAGEMENT CONTRACT PACKAGES

No.	Package No.	Component of work	Revised Cost in Rs million	Remarks	Status
1	GTK-SWM-1	Procurement of household bins, push carts and litter bins	19.51	Rebid	Waiting for approval of ADB for the recommended price bid
2	GTK-SWM-1A	Procurement of Personal Protective Equipments	0.28	Local shopping	Completed .Order Awarded.
3	GTK-SWM-2	Civil Works, Construction of Landfill, Leachate Treatment Plant and associated infrastructures in Gangtok	132.3	Work awarded to M/s UPL Infrastructure Private Limited, Vadodara	Work commenced
4	GTK-SWM-3A	Procurement of Hydraulic Excavator	1.99	BEML 81038 with 0.3 m ³ bucket procured on 14.12.2012 and put to operation at Martam	Completed through local shopping

Tranche2/SOLID WASTE MANAGEMENT CONTRACT PACKAGES AND STATUS

No.	Package No.	Component of work	Revised Cost in Rs million	Remarks	Status
5	GTK-SWM-3B	Procurement of Vehicles and Steel Bins in 2 Lots			
		Lot 1: Mini Garbage Tippers (3.2 Cu m Capacity)and garbage Tipper (4.5 Cu m Capacity)	12.80	Rebid	Price bids opened on 04.04.2014. financial evaluation sent to ADB and waiting for its approval.
		Lot 2: Procurement of Closed Compactor Trucks and 110 litre capacity Steel Bins	12.84	Awarded to TPS Infrastructure Limited New Delhi	Awarded

Tranche2/SOLID WASTE MANAGEMENT CONTRACT PACKAGES AND STATUS

No.	Package No.	Component of work	Revised Cost in Rs million	Remarks	Status
6	GTK-SWM-3C	Procurement of Bulldozer	5.11	Local shopping	Work awarded.

Tranche 2 SOLID WASTE MANAGEMENT SUB PROJECT /COMPONENT WISE STATUS

No.	Component	Status/Schedule
1	Site mobilization and surveying	Completed
2	Construction of Retaining Wall	Commenced and achieved 7.5% progress
3.0	Construction of Landfill	
3.1	Grading and compaction of the ground and construction of landfill	Commencement after completion of retaining wall
4	Providing glazed 100 mm stoneware sewer line over PCC from collection well near Windrows to Leachate Pit including construction of manholes and inspection chambers	Commencement by 08/2014
7	Construction of leachate treatment plant	Commencement by 05/2014

No.	Component	Status
8	Construction of Toilet Block	Commencement by 04/2014
9	Construction of Security Cabin	Commenced . Achieved 60% progress
10	Construction of Storm Water Drain	Commencement by 05/2014
11	Construction of Office cum Workers Room	Commenced. Achieved 60% progress
12	Fencing and Compound Wall	Commencement by 09/2014
13	Providing green belt around the site and construction of bore well for monitoring ground water quality	Commencement by 09/2014
14	Construction of Roads	Commencement by 04/2014
15	Piping system and storage for water supply distribution system	Commencement by 10/2014
16	Electrification and wiring and panel boards, meters	Commencement by 02/2015

Tranche 3 Sewerage Sub Project

Short description of the sub project

The proposed project envisages a sewage collection system for Zone III consisting 2 wards. It consists of a system working solely on gravitational flow, with Laterals, Sub Mains and Mains finally connected to a Trunk Main Sewer. 2 such Trunk Main Sewers provided for two sub zones, (2 wards) Thathenchin and Chandmari, will convey the sewage to the proposed Sewage Treatment Plant working on Sequential Batch Reactor Process where it will undergo a complete treatment. The DPR cost is 48 crores.

- The DPR is submitted to MOUD and comments and approval are awaited.

Tranche 3

Water Supply Sub Project

Short description of the sub project

In the ongoing JNNURM project executed by WS&PHED for supplying and laying a new raw water conveying main and the up-gradation and modernisation of WTP there is no provision for Slope Stabilisation for the undulating and unstable slopes along which the new line is laid.

The stabilisation of the slopes , laying of a bye pass pipe line, and staff quarters are proposed in this project. The Total cost is Rs.49.01 Crore

- DRP will be submitted to MOUD at the by 1st week May 14.

Tranche 3

Solid Waste Management Subproject

Short description of the Sub Project

This is a project for *Integrated Solid Waste Management (ISWM)*, a comprehensive waste prevention, recycling, composting and disposal program. The ISWM considers how to prevent, recycle and manage solid waste and protect human health most effectively

The total Cost of the project is Rs. 4.12 crore

- Salient features of the subproject
- Composting for Wet Waste
- Civil Works for Compost and associated works (Compost Storage Shed, Leachate Sump) (Rs.7.015 M)
- Mechanical works for compost plant(Rs.15.93 M)
- Electrical works for compost plant(Rs.0.8 M)
- Recycling Facilities for Dry Waste (Non Biodegradable)
- Civil Works for Dry Waste Segregation Centre (Rs 2.17 M)
- Mechanical Conveyors to facilitate Dry Waste Segregation (Rs 0.55M)
- Compactor Equipment for Baling of Paper Waste/ clothes, plastics etc and civil works to house the equipment (Rs.1.2M)
- Recycling of Plastic Wastes
- Plastic Recycling Plant to produce Granules (Rs.4.2M)
- Civil works for Plastic Recycling Plant (Rs2.17M)
- Final Cover to old dumps
- Final Cover for existing waste dump (Rs 5.80 M)
- Weigh Bridge (Rs. 1.32M)

STATUS OF COMPLIANCE OF ENVIRONMENTAL SAFEGUARDS

SI No.	Documents	Status		
		Tranche 1	Tranche 2	
		WS	WS	SWM
1	Initial Environmental Examination (IEE)	IEE Report was prepared by PPTA Consultants	Submitted in January 2011	Submitted in January 2011
2	Updation of IEEs based on detailed design	Updated IEE Report submitted in January 2011	Updated IEE Report submitted in October 2012	Updated IEE Report submitted in September 2012
3	Disclosure of updated IEEs	Disclosed in ADB and SIPMIU website	Disclosed in ADB and SIPMIU website	Disclosed in ADB and SIPMIU website
4	Inclusion of IEEs/EMPs in Bid documents & contracts	EMP Included in bid document & Contract	EMP Included in bid document & Contracts	EMP Included in bid document & Contract
5	Relevant information translated to local language	Will to be Translated to Local Language		
6	Public consultations during detailed design and construction phases	Details included in Compliance Review Checklist	Details included in Compliance Review Checklist	Details included in Compliance Review Checklist
7	Semi Annual Environmental Monitoring Reports	Report for Jan – June 2013 submitted to PMMC in July 2013. Tranche-wise Revised Report submitted to PMMC in August 2013.		
8	Disclosure of Semi Annual Environmental Monitoring Reports	Report submitted to PMMC. Disclosed in SIPMIU website		

THANK YOU

SIPMIU, Gangtok

DSMC, Gangtok