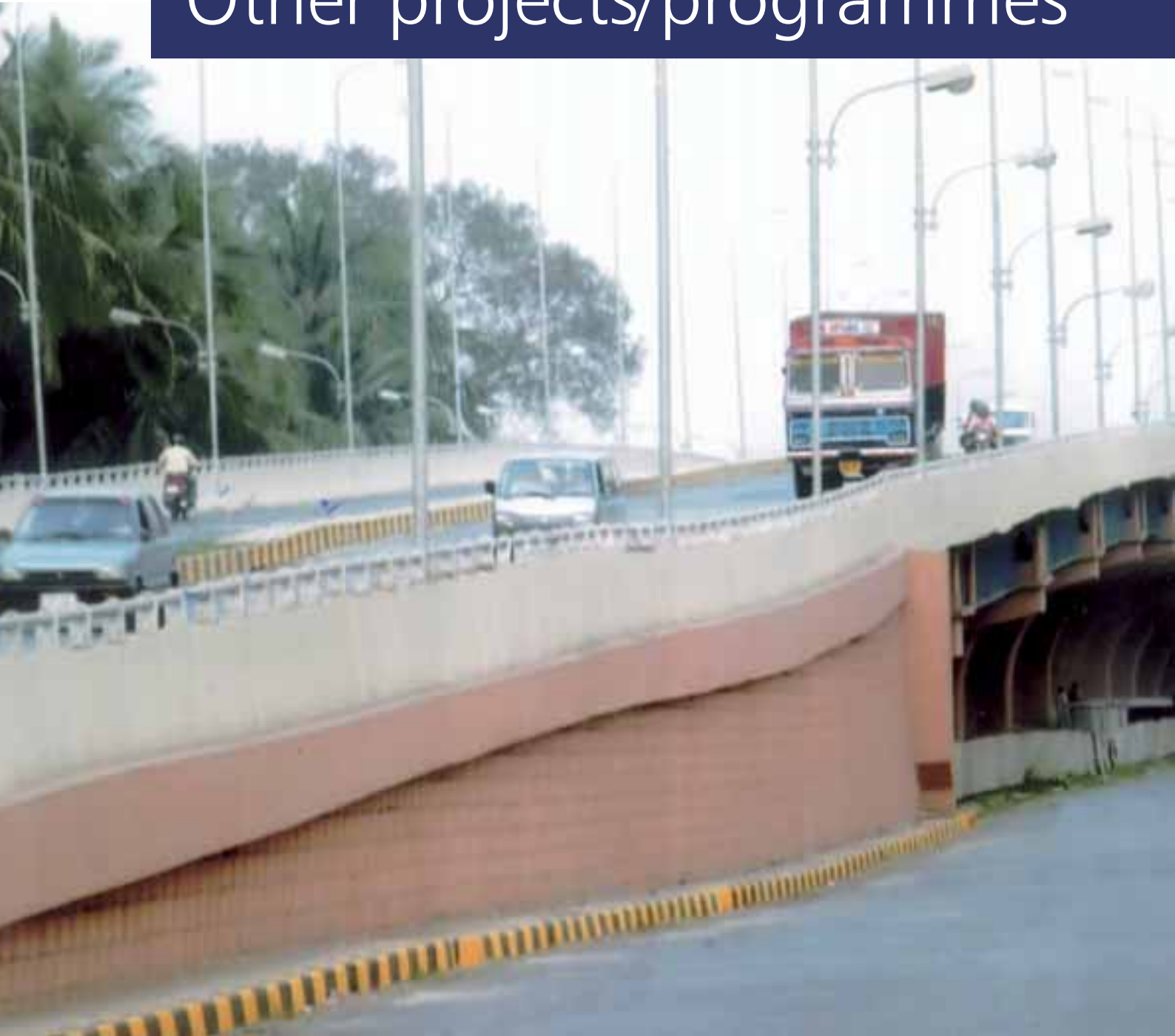


Other projects/programmes



(1) **Projects under Mega City, State Plan & BMS:** KMDA is engaged in implementation of infrastructure development projects, outside the purview of JN-NURM, being largely funded from State Plan support. Some of these projects are the residual parts of the projects taken up under the Calcutta Megacity Programme, funding under which has since been discontinued by Government of India from 2006-07 FY.

Highlights of achievements during 2010-11: Other Projects

Major on-going projects

- **Water Supply Sector:** 12 projects under Megacity Programme involving Rs.197.13 crore; 9 projects under State Fund involving Rs.11.4 crore and 14 projects under BMS for Rs.17.4 crore, including
 - Chandannagar WTP Phase-II
 - Augmentation of Padmapukur W.T.P. Ph-I
 - 30 M.G.D. WTP at Kalyani (Ph-I)
 - Replacement of Primary Grid of GRWW (Ph-I)
 - Water Supply at Pujali Municipality (Ph-I&II)
 - Water Supply scheme for added areas under Bhatpara Municipality
 - Surface Water Supply for Rajpur-Sonarpur Municipality
 - Water Supply for Monber & Dankuni Mouzas in Chanditala Block
- **Traffic & Transportation Sector:** 8 projects under Megacity Programme involving Rs.24.66 crore and 16 projects under State Fund involving Rs.95.5 crore, including
 - Construction of Barrackpore – Dum Dum Expressway (Phase-II)
 - Widening of EMBP from Ultadanga to PC Rotary
 - Widening of Patipukur Underpass
 - Prince Anwar Shah Road Connector to EMBP (Ph-II)
 - Second ROB near Baghajatin
 - Construction of Bedi para Underpass
 - Improvement of road surface of Barrackpore-Kalyani Expressway
 - Widening of Chowbhaga Road from Heritage School to Basanti Highway
 - Improvement & Strengthening of roads within Bidhannagar Municipal area
- **Sewerage & Drainage Sector:** 7 projects under Megacity Programme & BMS for Rs.11.4 crore, including
 - Storm Drainage along EMBP (from Kalikapur Bridge to Baghajatin Bridge)
 - Resectioning & Pucca lining of Sonai Nullah running through Peri-urban areas
- **Housing & Area Development Sector:** 5 projects under Megacity Programme involving Rs.18.75 crore and 11 projects under State Fund involving Rs.79.3 crore
- **River Front Development :** 3 schemes under State Fund involving Rs.6.4 crore

(2) **Major on-going Deposit Works:** It should be important to note that in view of KMDA's rich experience in project formulation and implementation, KMDA is entrusted by other government agencies to design and execute certain projects of those agencies with the projects fully funded by them. KMDA takes up these projects under the head of Deposit Work.

Highlights of achievements during 2010-11: Deposit Work

Major on-going projects

40 projects involving Rs.163.32 crore are under different stages of execution. Some of the projects are:

- New South 24-Parganas District Headquarters at Baruipur - DHQ apart, there shall be one R&D Hub over 140 acre of land where premier national level institutions will set up centres – Details given below
- Setting up of a new Medical College at Kalyani – to have tremendous developmental impact in the area – substantial work done
- Renovation & Upgradation of JNM Hospital at Kalyani
- Police Housing at different locations
- Wireless HQ Building of Kolkata Police
- Construction of Police Training School in Kolkata
- Netaji open University at Salt Lake
- Modernization of Technician Studio at Tollygunge
- Const. of 3 nos. four storied A type residential buildings under Kalyani Housing project Ph-III
- Development scheme of Added area for ward nos. 14, 22 & 23 under Bidhannagar Municipality
- Two storied dwelling units at different plots under East Kolkata and Baishnabghata Patuli area development project

In addition to above, KMDA is funding another 5 projects for an amount of Rs.27.32 crore and the projects are at different stages of execution.

KMDA continues to operate and maintain health care infrastructure and services that KMDA created in different municipal towns under CSIP/IPP8.

JICA Assisted Project: Kolkata Solid Waste Management Improvement Project (KSWMIP)

Kolkata Solid Waste Management Improvement Project (KSWMIP) is an innovative project that KMDA has taken up in six ULBs of KMA viz. Uttarpara-Kotrung, Konnagar, Rishra, Serampore, Baidyabati and Champdani. The project

is supported by Japan International co-operation Agency (JICA). The Project aims at management and disposal of municipal solid waste in the six Urban Local Bodies (ULBs) by introducing separate collection system, utilization of biodegradable waste for compost material, discontinuation of open dumping and scientific sanitary landfill with leachate treatment. The Project targets a population of 1.1 million. The

estimated project cost is Rs.170 crore. Out of this, Rs.141 crore would come from JICA as loan and the balance Rs.29 crore would be provided by the West Bengal Government.

The KSWMIP project is unique in many ways. For the first time in the country, this project aims to create common solid waste management infrastructure for a number of municipalities for shared disposal of waste. The regional

landfill at Baidyabati would be the final disposal point for waste from all the six municipalities. In addition, employing a socially oriented approach, the project will lay a strong emphasis on involving the local communities to efficiently collect and transfer waste from their neighborhoods.

Project Objectives:

- To create scientifically designed and environmentally sound waste management infrastructure.
- To create awareness and education amongst urban communities on better ways to handle waste as also to promote re-use and recycling of waste;
- To transform the citizens and ULBs

into participating stakeholders through public awareness and behaviour change education;

- To ensure that urban citizens of the six municipalities enjoy a clean environment, thereby contributing to the protection of health of women, children and the community in general.

Highlights of Achievements during 2010-11:

- More than 90% of Bins & Collection Equipments procured and provided to the ULBs
- Construction of Transfer Stations and Compost Plants in progress
- Construction of Regional Waste Management Centre in progress
- Construction of Secondary Collection Points in progress
- Profiling of Beneficiary Families completed (Around 200,000 families)
- Public Awareness Campaigns and Community Mobilization Programmes being continued
- Profiling of Rag Pickers completed, Livelihood Development Plan prepared
- Environmental Clearance from Dept. of Environment, GoWB obtained
- Environmental Education Programmes continuing in schools and colleges in the project area
- IEC Materials prepared and being regularly used for project campaigns and programmes
- Project Newsletter – SUCHI being regularly published
- Compendium of Families living in 134 Wards of 6 ULBs prepared
- Compendium of Apartments, Ceremonial Houses, ICDS/Health Centres, Institutions prepared

KSWMIP has two main components:

- the Engineering Packages targeted towards design, procurement, construction and implementation of waste management infrastructure in the six ULBs
- the Soft Components responsible for sensitizing the people towards the project and attempting to bring about a change in the waste disposal behaviour of people from the family level itself.

Status of the Engineering Packages

Package 1A - Primary Collection, Secondary Transport and Drain Cleaning

■ The package includes primary collection consisting of door-to-door and community bin service to collect the waste from the communities and includes for segregation of organic and inorganic waste at source. Waste will be collected using tricycle rickshaws, pushcarts and auto-tippers and will be brought to the Secondary Collection Points (SCPs). Bins (household as well as community), primary and secondary collection equipments and vehicles and all necessary tools are being provided through this project to the six ULBs.

■ Presently more than 90% of Bins & Collection Equipments have been provided to the ULBs. The detailed status is presented in the following table:

Status of Supply of Package 1A Items to the ULBs

| Items | Uttarpara | | Konnagar | | Rishra | | Serampore | | Baidyabati | | Champdani | | Total Ordered Quantity | Total Supplied Quantity |
|----------------------|-----------|----------|----------|----------|---------|----------|-----------|----------|------------|----------|-----------|----------|------------------------|-------------------------|
| | Ordered | Supplied | Ordered | Supplied | Ordered | Supplied | Ordered | Supplied | Ordered | Supplied | Ordered | Supplied | | |
| Household Bins | 86,150 | 84,000 | 39,240 | 38,000 | 58,950 | 56,000 | 98,210 | 93,000 | 62,550 | 59,000 | 52,250 | 44,000 | 397,350 | 374,000 (94%) |
| Pushcart (Bins) | 53 | 36 | 24 | 24 | 39 | - | 68 | 5 | 39 | 10 | 37 | 5 | 260 | 80 (31%) |
| Pushcart (Comp.) | 40 | - | 20 | - | 30 | - | 52 | - | 31 | - | 27 | - | 200 | 0 (0%) |
| Tricycle | 76 | 25 | 36 | 36 | 61 | 5 | 95 | 19 | 58 | 15 | 54 | 5 | 380 | 105 (28%) |
| Auto Tipper (3 Whlr) | 10 | 10 | 3 | 3 | 4 | 4 | 8 | 8 | 4 | 4 | 4 | 4 | 33 | 33 (100%) |
| Auto Tipper (4 Whlr) | 0 | - | 2 | 3 | 3 | 3 | 5 | 5 | 3 | 3 | 3 | - | 16 | 16(100%) |
| Community Bins | 80 | 80 | 65 | 65 | 70 | 70 | 100 | 100 | 55 | 55 | 60 | 60 | 430 | 430(100%) |
| Shovels | 80 | 80 | 56 | 56 | 68 | 68 | 108 | 108 | 64 | 64 | 64 | 64 | 440 | 440(100%) |
| Long Handle Broom | 32 | 32 | 24 | 24 | 26 | 26 | 39 | 39 | 24 | 24 | 25 | 25 | 170 | 170(100%) |
| Small Brooms | 30 | 30 | 15 | 15 | 23 | 23 | 39 | 39 | 22 | 22 | 21 | 21 | 150 | 150(100%) |
| Metal Tray & Plate | 97 | 97 | 49 | 49 | 75 | 75 | 129 | 129 | 72 | 72 | 68 | 68 | 490 | 490 (100%) |
| Wheel Barrows | 20 | 20 | 18 | 18 | 22 | - | 30 | 30 | 18 | 18 | 17 | - | 125 | 86(69%) |
| Metal Fork | 20 | 20 | 18 | 18 | 22 | 22 | 30 | 30 | 18 | 18 | 17 | 17 | 125 | 125(100%) |
| GI Bucket | 20 | 20 | 18 | 18 | 20 | 22 | 30 | 30 | 18 | 18 | 17 | 17 | 125 | 125(100%) |
| Spade | 20 | 20 | 18 | 18 | 22 | 22 | 30 | 30 | 18 | 18 | 17 | 17 | 125 | 125(100%) |
| Metal Spoon | 20 | 20 | 18 | 18 | 22 | 22 | 30 | 30 | 18 | 18 | 17 | 17 | 125 | 125(100%) |
| Apron | 304 | 304 | 180 | 180 | 244 | 244 | 404 | 404 | 238 | 238 | 230 | 230 | 1600 | 1600(100 %) |
| Gloves | 274 | 274 | 164 | 164 | 212 | 212 | 356 | 356 | 218 | 218 | 206 | 206 | 1430 | 1430(100%) |
| Masks | 304 | - | 180 | - | 244 | - | 404 | - | 238 | - | 230 | - | 1600 | 0(0%) |
| Rain Coat | 274 | 274 | 164 | 164 | 212 | 212 | 356 | 356 | 218 | 218 | 206 | 206 | 1430 | 1430(100%) |
| Gumboot | 20 | 20 | 18 | 18 | 22 | 22 | 30 | 30 | 18 | 18 | 17 | 17 | 125 | 125(100%) |
| MS Containers (DP) | 48 | - | 24 | - | 36 | - | 64 | - | 34 | - | 32 | - | 238 | 0(0%) |
| MS Containers (TT) | 72 | - | 36 | 1 | 54 | - | 96 | - | 54 | - | 50 | - | 362 | 1(0%) |

Package 1A Items Supplied to the ULBs



Package 1 B – Secondary Collection Points

- The Secondary Collection Points (SCPs) will have a concrete pad and space to accommodate two larger containers for segregated storage of waste. Secondary transport to Transfer Stations and Compost Plants will be achieved through use of Dumper Placer Vehicles and/or Tractor-based systems.
- Presently SCPs at about 83 sites selected by the ULBs have been constructed by the selected contractor, with co-operation of ULB officials & the citizens.

Status of Construction of SCPs in the 6 ULBs

| Municipality | No. of SCPs | |
|-------------------|-------------------|-------------|
| | To be Constructed | Constructed |
| Uttarpara-Kotrung | 44 | 20 |
| Konnagar | 34 | 20 |
| Rishra | 37 | 16 |
| Serampore | 59 | 15 |
| Baidyabati | 41 | 7 |
| Champdani | 41 | 5 |
| Total | 256 | 83 |



Package 2 – Transfer Stations and Compost Plants

- The package includes construction of five Transfer Stations and six Compost Plants in the ULBs. At the Transfer Stations, recyclable portion of the waste will be removed and in-organic wastes and rejects of Compost Plants will be transported to the Regional Waste Management Center (RWMC) through long hauls. Organic wastes will be composted at Compost Plants to produce manure.
- After receiving permissive possession of the Transfer Station and Compost Plant sites from the ULBs at Uttarpara-Kotrung, Konnagar, Serampore and Baidyabati, the selected Contractor completed the geotechnical and topographical surveys and garbage removal at these sites. The detailed design of the facilities were made and approved by KMDA. The sites were then taken up construction of Boundary Wall, Administrative Building, Workshop, Transfer Stations, Compost Plant and ancillary facilities at these sites. The work is in progress.

Status of Construction of T/S & CPs in the 4 ULBs

| Municipality | Waste Removal | Design | Construction | Expected Date of Completion |
|-------------------|---------------|----------|--------------|-----------------------------|
| Uttarpara-Kotrung | Completed | Approved | 30% | September 2011 |
| Konnagar | Completed | Approved | 20% | September 2011 |
| Serampore | Completed | Approved | 10% | October 2011 |
| Baidyabati | Completed | Approved | 30% | August 2011 |

The work at the Rishra and Champdani sites has not been initiated as the concerned ULBs have not been able to make the sites available to KMDA for start of construction activities.

Transfer Station and Compost Plant Construction Work in Progress in the ULBs

Uttarpara-Kotrung

Before Start of Project



Present Situation at site



Konnagar

Before Start of Project



Present Situation at site



Serampore

Before Start of Project



Present Situation at site



Badiyabati

Before Start of Project



Present Situation at site



Package 3 – Regional Waste Management Center (RWMC)

- The package includes construction of a Regional Waste Management Center at Dirghangi located along Old Delhi Road in Baidyabati Municipality. The in-organic wastes and the rejects of the Compost Plants of the six municipalities will be disposed in this regional sanitary landfill site and the leachate and septic tank sludge will also be treated in a Leachate and Septage Treatment Plant.
- The selected Contractor has carried out cleaning and dewatering of the entire 51 acres site at Dirghangi in Baidyabati Municipality. This has been followed by topographical and geotechnical survey of the sites. The detailed design of the facilities and their approvals are in the final stages. At present excavation at the sanitary landfill site is being accompanied by filling up of the area to the designed ground level and construction work for office, store, laboratory, and the boundary wall. The work is in progress.

RWMC Construction Work in Progress at Dirghangi, Baidyabati



Package 4 – Heavy Equipments and Vehicles

- This package includes the procurement of required heavy equipments like bulldozers, wheel-loaders etc. and transfer/haul vehicles like Dumper Trucks, Dumper Placers, etc.
- Following JICA’s approval, this Package has been split into Packages 4A and 4B to cater to requirements of Package 1 and Packages 2 & 3 separately. The design and bidding documents have been prepared and the tendering process will be initiated shortly.

Package 5 – Improvement of Access Roads

- This package includes improvement of the access roads to the project facilities i.e. Transfer Stations, Compost Plants and the Regional Waste Management Center.
- This package has already been tendered and selection of the agency followed by start of work is expected soon.

Status of the Soft Components

As part of soft components, public awareness and environmental education, social mobilization, rag-pickers’ livelihood improvement and capacity building of stakeholders are also included in this project. The activities at a grass root level are executed by a team of Social Mobilisers

selected by the ULBs under the supervision and guidance of the Project Consultants.

The social mobilization activities include advocacy meetings with decision makers of the ULBs, linkage meetings with municipal officials, Self Help Groups, Neighbourhood Groups,

NGOs etc, meetings with locals, educational awareness programmes in schools and colleges and interpersonal communication with the individual families as well as profiling each family. A summarized progress of social mobilization activities for the 6 ULBs till March 2011 is presented below:

Progress of Social Mobilization Activities in KSWMIP

| Activities | Numbers |
|--|--|
| Advocacy & Linkage Meetings | - 30 |
| Community Dialogues (Locals in General and Mothers in Particular) | - 322 |
| Focussed Group Discussions (SHGs, NHGs, Health ICDS) | - 68 |
| Environmental Education in Schools & Colleges | - 86 Nos of Interactions (More than 150,000 students & Several Thousand Teachers) |
| Interpersonal Communication & Profiling of Individual Families | - 193,969 Families |
| Social Mobilisation completed in Ward No. 6 of Baidyabati | - 569 Families |
| Review & monitoring of Primary Collection & Segregation at Source | - Completed among 22,000 Families |
| Awareness Campaign for Construction of Secondary Collection Points | - 70 Wards |
| Special Programmes | - Painting Competition among Students - Exhibitions during Local Festivals Durga Puja & Rath Yatra - Participation in local social events like Rishra Mela, etc. |
| Policy Initiatives | - Formulated a Solid Waste Management Policy for KSWMIP |



KSWMIP in Japanese Dailies

Pleased with the social mobilisation activities of KMDA in KSWMIP areas JICA deputed a Media Mission. The Mission visited several areas, interacted with the citizens, municipalities, educational institutions and saw segregation and primary collection

process. On being back to Japan they published appreciative reports in several dailies.

The Mission led by Mrs. Kaaori Iwata, Programme Specialist, JICA, India and Mr. Ketaro Shimizu, Bureau Chief of Kiiyodo News visited KSWMIP area on 8th July 2010. Besides the communities

in different KSWMIP areas, the mission interacted intimately with the students and teachers of Serampore College and with the Chairman and Councillors of Konnagar Municipality.

Facsimile of news items of KSWMIP published in several dailies of Japan



Regular Review of the KWMIP

The progress of KSWMIP is regularly reviewed by different decision-makers and stakeholders as indicated in the Table below:

| Review | Date (Last held) |
|---|------------------|
| Project Review by Hon'ble MIC (UD&MA) (in presence of Principal Secretary UD Dept, GoWB & CEO, KMDA) | Feb 2011 |
| 3rd Steering Committee Meeting, Chaired by Principal Secretary UD Dept, GoWB (in presence of JICA Officials) | Dec 2010 |
| JICA Review Mission | May 2010 |
| Project Review by District Authorities, Chaired by District Magistrate, Hooghly | Feb 2011 |



Hon'ble MIC, UD&MA, GoWB reviewing the Project, February 2011



3rd Steering Committee Meeting, Chaired by Principal Secretary UD Dept, GoWB, December 2010

Baruipur Township

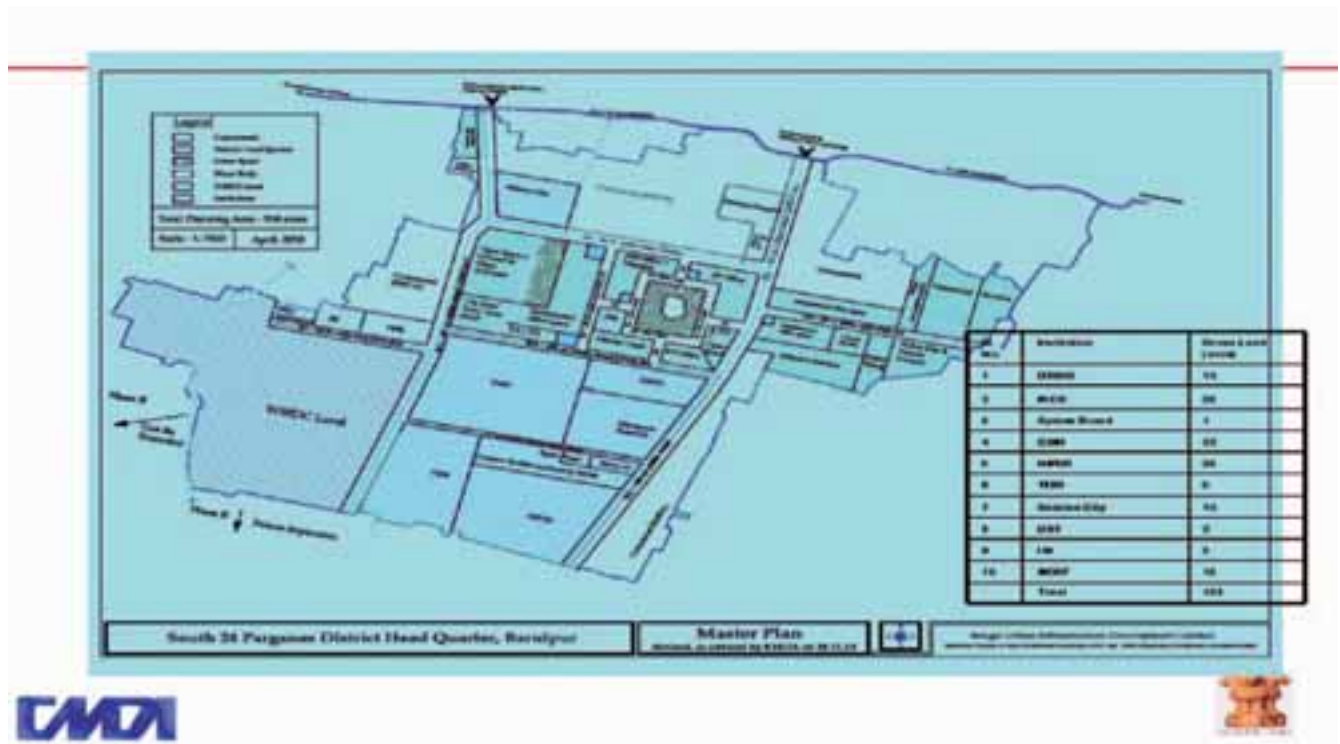
The State Government in the Home PAR Department decided to shift the DHQ of South 24 Parganas District from Alipore in Kolkata city to Baruipur, which was already identified by KMDA as one of the prospective growth centres within KMA. The State Government appointed KMDA as the nodal implementing agency for the project. While developing the concept plan for the DHQ, KMDA realized that to make the DHQ properly functional, certain supporting facilities needed to be provided and DHQ would have to be a part of an integrated township. Based on the concept, the State Government

took the decision to limit the size of the township to 500 acres. The State Government constituted an Advisory Committee to finalize the concept layout plan. On the advice of the Advisory Committee, the concept development plan included five major components, viz. (a) DHQ (b) Research & Development (R&D) Hub (c) District Hospital (d) Development by WBIDC & (e) Development by KMDA. The provision of R&D Hub has been a unique one in that proposals from different national level institutions for allotment of land in the State to enable them to set up R&D activities could be accommodated.

KMDA acquired 500 acre of land at its cost. KMDA appointed consultants to work out further detailing of the master plan for Baruipur Township in the backdrop of the concept plan and to prepare site development and trunk infrastructure development plans for the entire township.

The State Government has constituted a High Level Committee (HLC) under chairmanship of the Hon'ble Minister-in-charge, Urban Development & Municipal Affairs, Government of West Bengal, for deciding on matters related to the project.

The HLC has approved the master layout plan for the entire 500-acre township.



As regards the R&D Hub, the HLC has finalized the allotments to the various institutions, on the basis of recommendations of the Department of Science & Technology (DST), Government of West Bengal, as indicated in the Table below.

| Sl. No. | Name of the Institution | Quantum of land allotted (acre) |
|---------|---|---------------------------------|
| 1 | Defence Research & Development Organization (DRDO) | 10 |
| 2 | Indian Association for the Cultivation of Sciences (IACS) | 35 |
| 3 | Spice Board | 1 |
| 4 | Council for Scientific & Industrial Research (CSIR) | 22 |
| 5 | National Institute Pharmaceutical Education & Research (NIPER) | 35 |
| 6 | The Energy & Resources Institute (TERI) | 5 |
| 7 | Science City, National Council of Science & Museums | 10 |
| 8 | Space Application Centre, Department of Science & Technology, Government of West Bengal | 2 |
| 9 | Indian Statistical Institute (ISI) | 3 |
| 10 | Mangrove Research, Ministry of Environment & Forests (MOEF) | 15 |
| | Total | 138 |

KMDA issued the first lot of allotment letters to the R&D Hub allottees in July 2009. Bulk plots of net land have already been handed over to 8 of the 10 allottees, excluding Mangrove Research under MOEF & ISI. Each allottee shall need to pay to KMDA proportionate costs of site development and infrastructure development, when so requested.

The trunk level infrastructure development plans are at an advanced stage of completion. On the basis of the report submitted by the consultants, site development work or land filling work has already commenced. Land development work over 500 acre has been taken up and the same is likely to be completed by July 2012. The development of the major access road has also been taken up and a considerable progress has been achieved so far, with 2.8 Km out of 3.8 Km length of 45-metre arterial road having been already finished upto

the WBM stage. As soon as the trunk infrastructure plans will be finalized tenders for execution of the plans will be invited and work started on ground.

For the core District Headquarters, KMDA has engaged a firm of consultants to finalize the Master Layout Plan and to work out the detailed infrastructure and building plans such that the plans are tender worthy. The consultants have submitted the master layout plan including the concept plans for development of the superstructures to KMDA for approval. Once KMDA receives the approval of the State Government on the plans, further detailing will be carried out by the consultants.

With the object of providing improved accessibility to the proposed project site at Baruipur, KMDA has completed widening of EMBP by additional two-lanes from Garia to Kamalgazi. Further,

KMDA has proposed a Flyover connecting EMBP at Kamalgazi to Roads alongside Adi Ganga for which a DPR has been prepared and submitted to Government of India for JN-NURM assistance. Construction of 9.6 km 2-lane Roads on either banks of Adi Ganga, funded under JN-NURM, has achieved substantial progress

In order to guide and control the development at Baruipur Township in an environment friendly and sustainable manner, KMDA has prepared a set of Development Control Regulations (DCRs) and the same has been forwarded to the Urban Development Department of the state Government for approval.

KMDA has also initiated step to constitute a Single Window such that quicker clearance to all building plans in the entire township can be accorded, provided such plans are in conformity with the DCRs.