

PREFACE

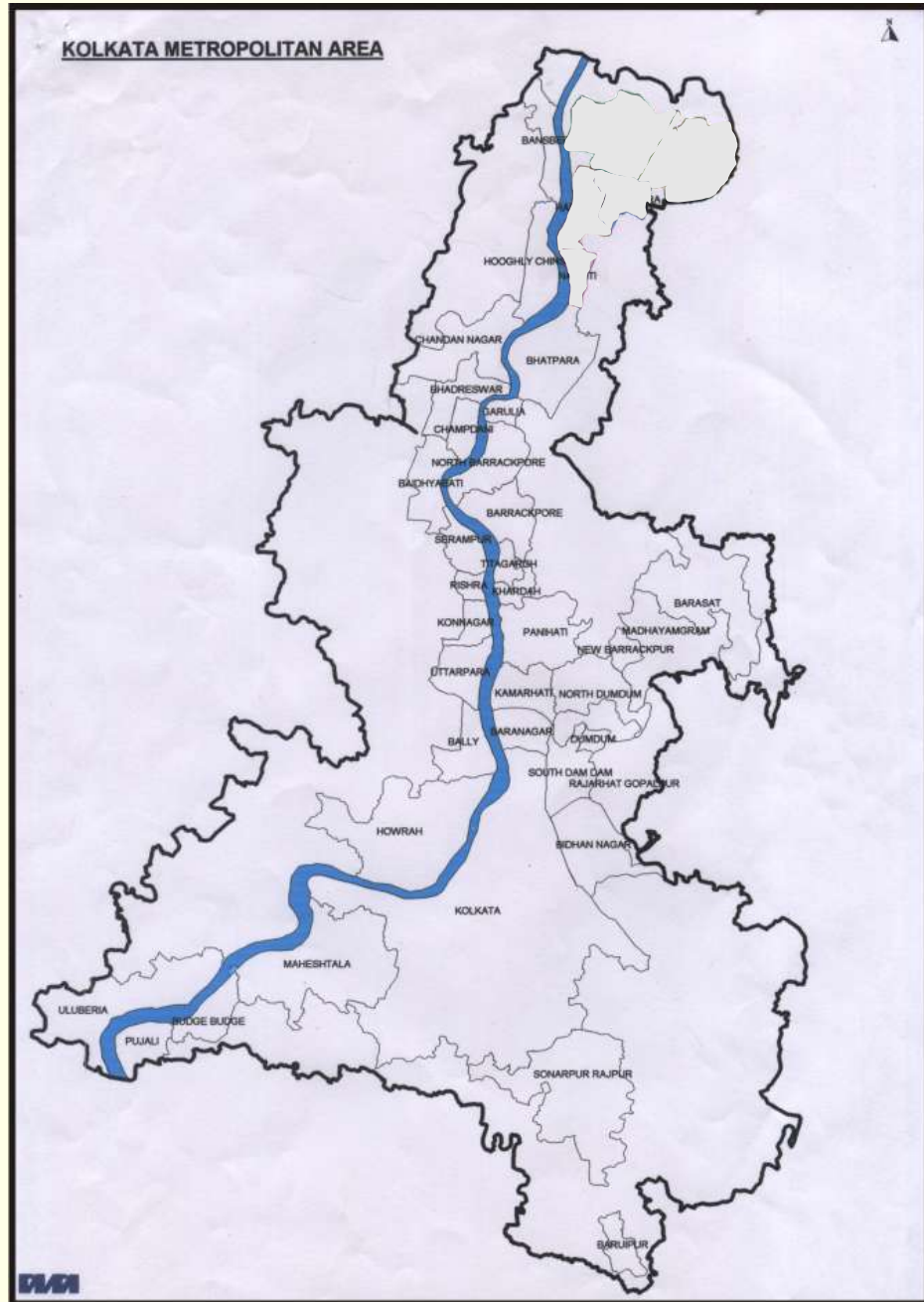
Kolkata Metropolitan Area (KMA) is the largest urban agglomeration in Eastern India, extends area 1886.67 sq. km and envelops 3 municipal corporations, 39 Municipalities & 24 Panchayat Samities. KMA held a population of 14.77 million according to 2001 census.

River Hooghly runs through the middle of this conglomeration from North to South, dividing the KMA into the parts. One part is on the eastern bank of River Hooghly & the other part is on. West Bank Raw water for surface water supply is sourced from river Hooghly as it as a perennial river & the raw water treatment cost is minimum to achieve targeted treated surface water standard.

The city of Kolkata is sloped towards eastern side, Which is covered with vast wetland & help treating sanitary waste of Kolkata Municipal Corporation area so there is no necessary of sewage treatment plant in KMc area. The treated water is used for cultivation of cash crop & P.C. Culture

Kolkata Metropolitan Area

In KMA there are 3 Municipal Corporations & 39 Municipalities. 24 Panchayat Samity with a total population of 14.77 Million as per 2001 census



Sanitation facilities in Kolkata Metropolitan area

In Kolkata Municipal Corporation area there is no sewerage treatment plant as there is vast wet land on the eastern side of Kolkata & the city is sloped towards the eastern side. The vast wet land help treating the municipal sanitary sewerage. The treated water is then used for cash crop cultivation and P.C. culture. Recently under Kolkata environmental improvement programme 3 STPS are scheduled to be constructed in the added area of Kolkata under the JAICA programme.

In KMA, outside Kolkata Corporation area, National Ganga River basin Authority (NGRBA) Schemes are implemented to collect sanitary sewerage from all the premises & treated & discharged to River Hooghly following CPCB norms.

Water Supply in KMA

Kolkata Corporation area is served by 3 WTPS

- 1) 260 MGD WTP at North Palta (recently 64" pipeline laid to carry additional treated water to Kolkata)
- 2) 120 MGD WTP at Gardenreach
- 3) 120 MGD WTP at Dhapa (Eastern fringe of Kolkata)

Dhapa WTP has been taken up due to rise in Arsenic Contamination in the eastern fringe of Kolkata. It is targeted to shift from ground water to treated surface water supply by 2014

Rural areas, adjacent to KMA is looked after by PHE Dept. Govt. of WB. PHE Dept. has also implemented or is implementing a number of surface water supply scheme to rural areas instead of ground water supply for drinking & daily use purpose. Ground water would be used for meeting irrigation system where surface water is not available in the canal system.

The vision of Kolkata 2025 is to transform water use from ground water to surface water.

Challenge of this hour : Shifting from ground water supply to surface water supply

Water Supply Scheme Already in operation or would be Operational in Next One Year

(This List Dose not Include WTPS' already in Operation under KMC)

Sl. No.	Name of Scheme	Capacity	Remarks
1	24 X 7 water supply scheme for Municipal towns of Naihati, Halishar, Kanchrapara & Kalyani	30 MGD	already commissioned
2	24 X 7 water supply scheme at Garulia	4 MGD	already commissioned
3	24X7 WS scheme at Dum Dum, North Dum Dum, South Dum Dum Municipality	30 MGD	Expected to be Commissioned by June-2013
4	Water Supply Scheme for Baranagar, Kamarhati, Panihati, Titagar, Khardah and North Dum Dum	30 MGD	already commissioned
5	24 X 7 W. S. Scheme at Bhatpara	23 MGD	Expected to be commissioned by March-2013

Sl. No.	Name of Scheme	Capacity	Remarks
6	24 X 7 W. S. Scheme for Bally Municipality	11 MGD	Expected to be commissioned by June – 2013
7	24 X 7 W.S. Scheme for Madhyamgram, Barasat & New Barrackpur	32 MGD	Expected to be commissioned by March 2014
8	24X7 W.S. Scheme at Titagarh & Khardah Municipality	16 MGD	Expected to be commissioned by March-2014
9	24 X 7 W.S Scheme for Uluberia Municipality	10 MGD + 4 MGD	10 MGD already commissioned and 4 MGD expected to be commissioned by March-14
10	24 X 7 W.S. Scheme for Bansberia	15 MGD	Expected to be commissioned by June-2013
11	24 X 7 W.S. Scheme for Barrackpur & North Barrackpur municipality	15 MGD	Expected to be commissioned by June-2013

Sl. No.	Name of Scheme	Capacity	Remarks
12	24 X 7 W.S. Scheme for Chandannagar Municipality	6 MGD	Expected to be commissioned by March-2013
13	Surface Water Supply Scheme at Serampur	20 MGD	Already in Operation
14	Surface Water Supply Scheme at Baranagar	1.5 MGD	Expected to be commissioned by June-2013
15	Water Treatment Plan at Padmapukur, Howrah	60 MGD	Already in Operation

Total surface water Treatment Plant in KMA

1) KMC & its fringe area 500 MGD

2) KMC area outside KMC – 320.5 MGD

(155 MGD already commissioned and another 165.5 MGD would be Commissioned within March – 2014 in different time slot

24 X 7 water supply scheme for Municipal towns of Naihati, Halishar, Kanchrapara & Kalyani

1.	Name of the Scheme	Provision of 24x7 treated surface water to five municipal towns namely Gayeshpur, Kanchrapara, Halisahar, Naihati, Kalyani and uncovered areas of Kalyani.								
2.	Area covered:	121.72 Sq. km.								
3.	Population to be benefitted:	11.30 lakhs will be benefitted with a supply pattern @ 135 lpcd.								
4.	Major components of the project:	<ul style="list-style-type: none"> • Laying of conveyance main. • 3 nos. UGR cum pump house. • Primary Grid from Kalyani CWR to 7 Nos. ESRs at Kanchrapara municipal towns. • Primary Grid from UGR cum pump house at Gayeshpur to 6 nos. of ESRs. • Primary Grid from UGR cum pump house at Halisahar to 7 nos. ESRs. • Primary Grid from UGR cum pump house at Naihati to 14 nos. ESR. • Remaining part of the primary grid from Kalyani CWR to 4 nos. ESRs at Kalyani. • Refurbishment of distribution mains at all the five municipal towns from the respective ESRs to the consumers end by providing domestic and bulk meters. 								
5.	Approved Project Cost Rs in Crores)	141.94								
6.	Fund sharing	<table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">Govt. of India</td> <td style="width: 30%; text-align: right;">:35%</td> </tr> <tr> <td>GOWB</td> <td style="text-align: right;">: 35%</td> </tr> <tr> <td>KMDA</td> <td style="text-align: right;">: 25%</td> </tr> <tr> <td>ULB</td> <td style="text-align: right;">: 5%</td> </tr> </table>	Govt. of India	:35%	GOWB	: 35%	KMDA	: 25%	ULB	: 5%
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WATER SUPPLY SCHEME FOR GARULIA MUNICIPAL AREA

1.	Name of the Scheme	24x7 Surface Water Supply to the people of entire Garulia Municipal Town.
2.	Area covered:	6.475 Sq.Km
3.	Population to be benefitted:	1.08 lakhs will be benefitted with a supply pattern @ 135 lpcd.
4.	Major components of the project already completed.	<ul style="list-style-type: none"> • Construction of 4.10 MGD capacity Water Treatment Plant including clear water reservoir. • Laying of Raw Water Main-2700M • Laying of Primary Grid- 5100M • Construction of 5 nos. ESRs
5.	Major component under progress.	<ul style="list-style-type: none"> • Raw Water Intake Jetty • 1 no. ESR • Distribution Grid-29000M
6.	Approved Project Cost	4719.26 lakh
7.	Fund sharing	Govt. of India : 35% GoWB : 35% KMDA : 25% ULB : 5%

**STATUS AT A GLANCE ON WATER SUPPLY PROJECT FOR DUM DUM,
SOUTH DUM DUM AND NORTH DUM DUM MUNICIPALITY UNDER JNNURM**

1.	Name of the scheme	24x7 Surface Water Supply to Dum Dum, South Dum Dum and North Dum Dum Municipal Towns.
2.	Objective	24x7 Water Supply to all the citizens in the three municipal towns @ 135 lpcd. With removal of dependence on ground water.
3.	Area covered:	48.98 Sq.Km in 3 municipal towns of Dum Dum, North Dum Dum and South Dum Dum.
4.	Population to be benefitted:	6.75 lakhs will be benefitted with a supply pattern @ 135 lpcd.
5.	Major components of the project.	<ul style="list-style-type: none"> • Raw Water Pump House • 1200 mm dia suction main • 1200 mm. dia Raw Water Rising Main • 30 MGD Water Treatment Plant • Clear Water Reservoir cum Pumping Station. • Clear Water Conveyance Main • Under Ground Reservoir cum Booster Pumping Station at North Dum Dum, Muncp. South Dum Dum Muncp and Dum Dum Muncp. • 27 nos. of Elevated Service Reservoir. • Primary feeder main.- 35 K M. • Distribution Net Work – 194 KM
7.	Approved Project cost	31272.08 lakhs
8.	Fund sharing.	G.O.I : 35% GoWB : 35% KMDA : 25% ULB : 5%

WATER SUPPLY SCHEME FOR BHATPARA MUNICIPAL AREA

1.	Over view of the project:	Provision of 24x7 treated Surface Water through metered connection to the people of Bhatpara Municipal Town
2.	Area covered:	31.84 Sq. Km.
3.	Population to be benefitted:	5.05 lakhs will be benefitted with a supply pattern @135 lpcd.
4.	Major components of the project under progress.	<ul style="list-style-type: none">• Construction of intake jetty• 3.37 km rising main 1000 mm. dia.• Primary feeder mains-37 KM• Distributions mains- 204 KM• Construction of 23 MGD Water Treatment Plant along with construction of 1 million capacity clear water reservoir.• 19 nos. of Elevated Service Reservoirs
5.	Approved Project Cost	24970.42 lakhs
6.	Fund sharing	Govt of India : 35% GoWB :35% KMDA :25% ULB :5%

WATER SUPPLY PROJECT FOR BALLY MUNICIPALITY

1.	Name of the scheme	24x7 Surface Water Supply to the BALLY Municipal Town.
2.	Area covered:	11.81 Sq.Km.
3.	Population to be benefitted:	3.97 lakhs will be benefitted with a supply pattern @ 135 lpcd.
4.	Major components of the project:	<ul style="list-style-type: none">• Construction of 48 MLD WTP• Jetty mounted Intake Pumping station, CWR.• Raw Water Main-500 M• Primary Feeder Main – 14 KM• Secondary Distribution Grid – 96 KM• 12 nos. ESRs.• House Connection with metering.
5.	Approved Project Cost	13849.36 lakhs
6.	Fund sharing	G.O.I : 35% GoWB: 35% KMDA :25% ULB : 5%

Thank You