

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
NATIONAL RIVER CONSERVATION DIRECTORATE (NRCD)  
MINISTRY OF ENVIRONMENT AND FORESTS

**THE STUDY  
ON  
WATER QUALITY MANAGEMENT PLAN FOR  
GANGA RIVER  
IN  
THE REPUBLIC OF INDIA**

**FINAL REPORT**

**VOLUME IV FEASIBILITY STUDY FOR PROJECT CITIES**

**VOLUME VI-1 FEASIBILITY STUDY FOR LUCKNOW CITY  
PART VII DRAWINGS**

**JULY 2005**

**TOKYO ENGINEERING CONSULTANTS CO., LTD.  
CTI ENGINEERING INTERNATIONAL CO., LTD.**

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# SEWERAGE PRIORITY PROJECTS IN LUCKNOW

DISTRICT (including FSA No.)	Population	Wastewater Generation (MLD)
	2015	2015
DISTRICT - I (131)	252,388	34.13
DISTRICT - II (127-130)	484,791	65.49
DISTRICT - III (121, 122, 125, 126, 132)	1,379,160	185.93
DISTRICT - IV (123, 124, 133)	1,489,248	251.69
<b>Total</b>	<b>3,605,587</b>	<b>537.24</b>

### SEWAGE PUMPING STATIONS UNDER PRIORITY PROJECTS

No.	Pumping Station	Status	Capacity (MLD)	Remark
			2015	
①	TGPS	Existing	45	DEMOLITION OF EXISTING AND CONSTRUCTION OF NEW
②	CGPS	Existing	50	DEMOLITION OF EXISTING AND CONSTRUCTION OF NEW
③	MARTIN PURWA	Proposed	80	
④	TSPS AT MASTEMAU	Proposed	100	

### SEWAGE TREATMENT PLANT UNDER PRIORITY PROJECTS

No.	Treatment Plant	Status	Capacity (MLD)		Remark
			2015	2030	
①	Mastemau	Proposed	100	305	District - IV

### SEWERAGE SCHEME UNDER PRIORITY PROJECTS

District No.	Location	Name of Sewer	REMARK
District - I	CGTS1 TO CGTS4	CIS GOMTI TRUNK SEWER	REHABILITATION OF EXISTING
District - III	TG_N1 TO TG_N10	TRANS GOMTI RELIEF SEWER	PROPOSED
District - IV	CGTS4 TO CGTS41	CIS GOMTI TRUNK SEWER	REHABILITATION OF EXISTING
District - IV	RTS_N1 TO RTS_N32	CIS GOMTI RELIEF TRUNK SEWER	PROPOSED
District - IV	STS_N1 TO STS_N15	SULTANPUR ROAD TRUNK SEWER	PROPOSED

### ALIGNMENT OF CIS GOMTI RELIEF TRUNK SEWER

NODE	PIPE	
	SIZE (mm)	LENGTH (mm)
RTS_N1 - RTS_N2	700	250
RTS_N2 - RTS_N3	700	200
RTS_N3 - RTS_N4	700	350
RTS_N4 - RTS_N5	1200	300
RTS_N5 - RTS_N6	1200	350
RTS_N6 - RTS_N7	1400	350
RTS_N7 - RTS_N8	1400	150
RTS_N8 - RTS_N9	1400	100
RTS_N9 - RTS_N10	1400	150
RTS_N10 - RTS_N11	1400	500
RTS_N11 - RTS_N12	1800	375
RTS_N12 - RTS_N13	1800	175
RTS_N13 - RTS_N14	1800	225
RTS_N14 - RTS_N15	1800	125
RTS_N15 - RTS_N16	1800	250
RTS_N16 - RTS_N17	1800	150
RTS_N17 - RTS_N18	1800	225
RTS_N18 - RTS_N19	1800	75
RTS_N19 - RTS_N20	1800	350
RTS_N20 - RTS_N21	1800	100
RTS_N21 - RTS_N22	1800	200
RTS_N22 - RTS_N23	1800	200
RTS_N23 - RTS_N24	1800	300
RTS_N24 - RTS_N25	2200	300
RTS_N25 - RTS_N26	2200	325
RTS_N26 - RTS_N27	2200	125
RTS_N27 - RTS_N28	2200	50
RTS_N28 - RTS_N29	2200	350
RTS_N29 - RTS_N30	2200	450
RTS_N30 - RTS_N31	2200	350
RTS_N31 - RTS_N32	2200	300
RTS_N32 - MP_PS	2200	50

### ALIGNMENT OF SULTANPUR ROAD TRUNK SEWER

NODE	PIPE	
	SIZE (mm)	LENGTH (mm)
STS_N1 - STS_N2	2400	550
STS_N2 - STS_N3	2400	700
STS_N3 - STS_N4	2400	600
STS_N4 - STS_N5	2400	650
STS_N5 - STS_N6	2400	350
STS_N6 - STS_N7	2400	400
STS_N7 - STS_N8	2400	350
STS_N8 - STS_N9	2400	400
STS_N9 - STS_N10	2400	600
STS_N10 - STS_N11	2400	600
STS_N11 - STS_N12	2400	700
STS_N12 - STS_N13	2400	650
STS_N13 - STS_N14	2400	250
STS_N14 - STS_N15	2400	350
STS_N15 - MM_PS	2400	300

### ALIGNMENT OF CIS GOMTI TRUNK SEWER

NODE	SIZE (mm)	LENGTH (mm)
CGTS1 - MH10	750	523
MH10 - CGTS14	1050	346.5
CGTS14 - CGTS17	1400	378.00
CGTS17 - CGTS22	1500	769.50
CGTS22 - CGTS26	1650	922.50
CGTS26 - CGTS30	1800	1158.50
CGTS30 - CGTS32	1950	266.50
CGTS32 - CGTS34	2100	896.50
CGTS34 - CGTS35	2100	736.00
CGTS35 - CGTS41	2100	908.00

### ALIGNMENT OF TRANS GOMTI RELIEF SEWER

NODE	SIZE (mm)	LENGTH (mm)
TG_N1 - TG_N2	1300	225
TG_N2 - TG_N3	1300	400
TG_N3 - TG_N4	1300	250
TG_N4 - TG_N5	1400	300
TG_N5 - TG_N6	1400	450
TG_N6 - TG_N7	1400	500
TG_N7 - TG_N8	1400	300
TG_N8 - TG_N9	1400	350
TG_N9 - TG_N10	1600	275
TG_N10 - TG_PS	1600	175

### LEGEND:

- MUNICIPAL BOUNDARY
- ==== ROAD
- ++++ RAILWAY LINE
- ~~~~ RIVER
- ~~~~ NALA
- PROPOSED NEW TRUNK SEWER
- RISING MAIN
- REHABILITATION EXISTING SEWER
- ⊙ EXISTING PUMPING STATION
- ⊙ PROPOSED PUMPING STATION
- ⊙ EXISTING STP
- ⊙ PROPOSED STP
- CH 1234 CHAINAGE NUMBER
- FSA131 FUTURE SERVICE AREA

- DISTRICT - I (including FSA131)
- DISTRICT - II (including FSA127-130)
- DISTRICT - III (including FSA121,122,125,126,132)
- DISTRICT - IV (including FSA123,124,133)

### REFERENCE DRAWING :

- 1) BASE MAP WITH WARD BOUNDARIES AND PROPOSED PRIORITY PROJECTS LKO-BASE MAP-2
- 2) KEY PLAN LKO-KEY-1

INST.	ELEC.	MECH.	STRU.	CIVIL	
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:	APPROVED BY:
SAURABH MISRA	V.N.SONTAKKE

DRAWN:	H.S.PAWAR	SCALE:	1:50000
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DESIGNED:	VERMA	DATE:	24-12-2004
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**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS:  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTI ENGINEERING INTERNATIONAL CO., LTD.  
 MWH INDIA PRIVATE LIMITED

PROJECT:  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR LUCKNOW CITY

SHEET CONTENTS:  
 BASE MAP WITH SEWERAGE ZONES

DRAWING NO. LKO-BASE MAP-1

SR. NO. 1