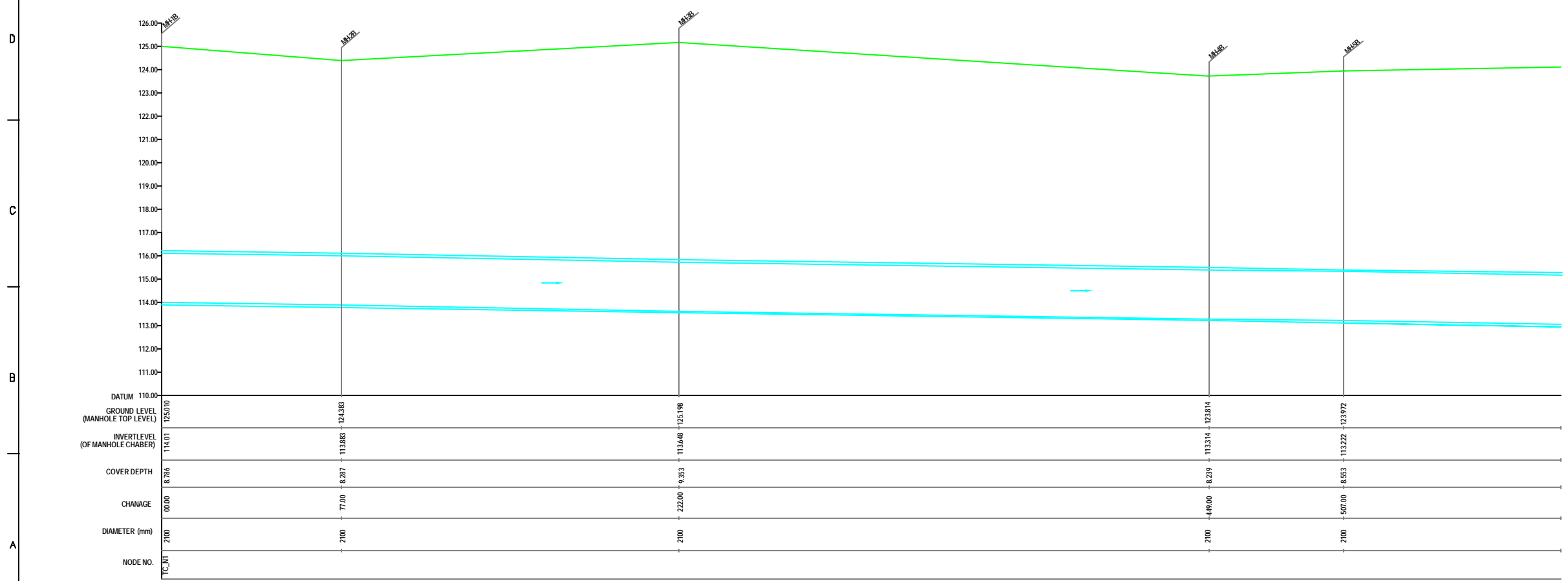


PLAN
SCALE- 1 : 1000



L-SECTION
SCALE- HOR. 1 : 1000, VER. 1 : 100

NOTE:
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
2) ALL THE LEVELS ARE IN METERS.

LEGEND

EXISTING SEWER LINE	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CROWN	
MDSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	

REFERENCE DRAWING :
1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
3) KEY PLAN KAN-KP-1
4) DATCHMENT AREA KAN-CAN-01-1

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

CHECKED BY: **JOHNAED KHAN**
APPROVED BY: **V.N.SCHTAKKE**
DRAWN: **F.RUJIAO**
DESIGNED: **SCALE AS SHOWN**
SURVEYED: **VENTECH ENGR. DATE 28-12-2004**



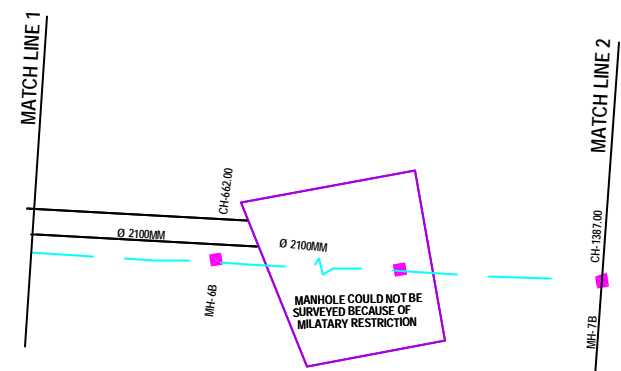
PROJECT:
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA
FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS:
PLAN AND PROFILE OF MANHOLE SURVEY FROM TUBE WELL NO. 5 CANTONMENT AREA TO CHABBILLE PURWA (MEETING POINT OF 60" TRUNK SEWER) (SHEET 1/5)

DRAWING NO. **KAN-PPM-TC-1** SR. NO. **78**



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.



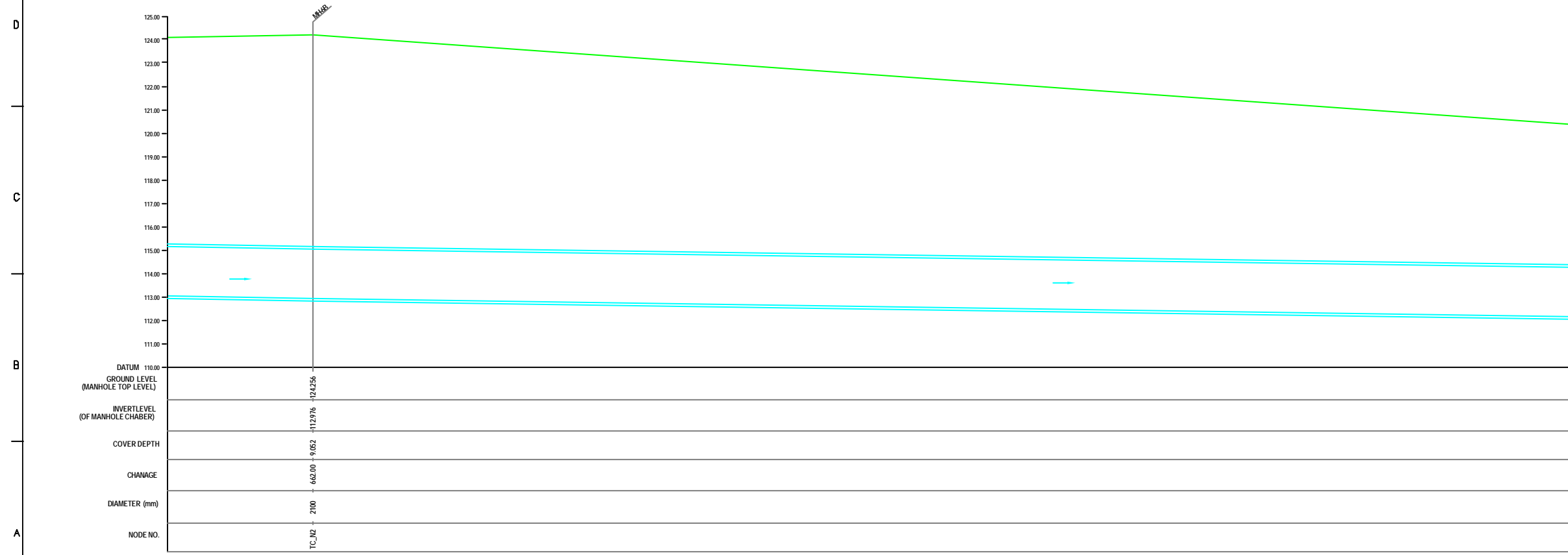
PLAN
 SCALE- 1 : 1000

LEGEND

EXISTING SEWER LINE	
ROAD	
RAILWAY LINE	
WELL HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUMBER	
INDUQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	

REFERENCE DRAWING :

1) BASE MAP WITH SEWERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) DATCHMENT AREA	KAN-CAN-01-1



L-SECTION
 SCALE- HOR. 1 : 1000, VER. 1 : 100

INST.					
ELEC.					
MECH.					
STRA.					
CIVIL					
REV. NO.	0	1	2	3	4
REV.					
DESCRIPTION OF REVISIONS					
DATE					
CHECKED					

CHECKED BY:	APPROVED BY:
JOHNEED KHAN	V.N.SCHTAKKE
DRAWN: FRIJIAO	SCALE: AS SHOWN
DESIGNED:	DATE: 28-12-2004
SURVEYED: VENTECH ENGR.	

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SURESH VARMA PRAKASHI LIMITED

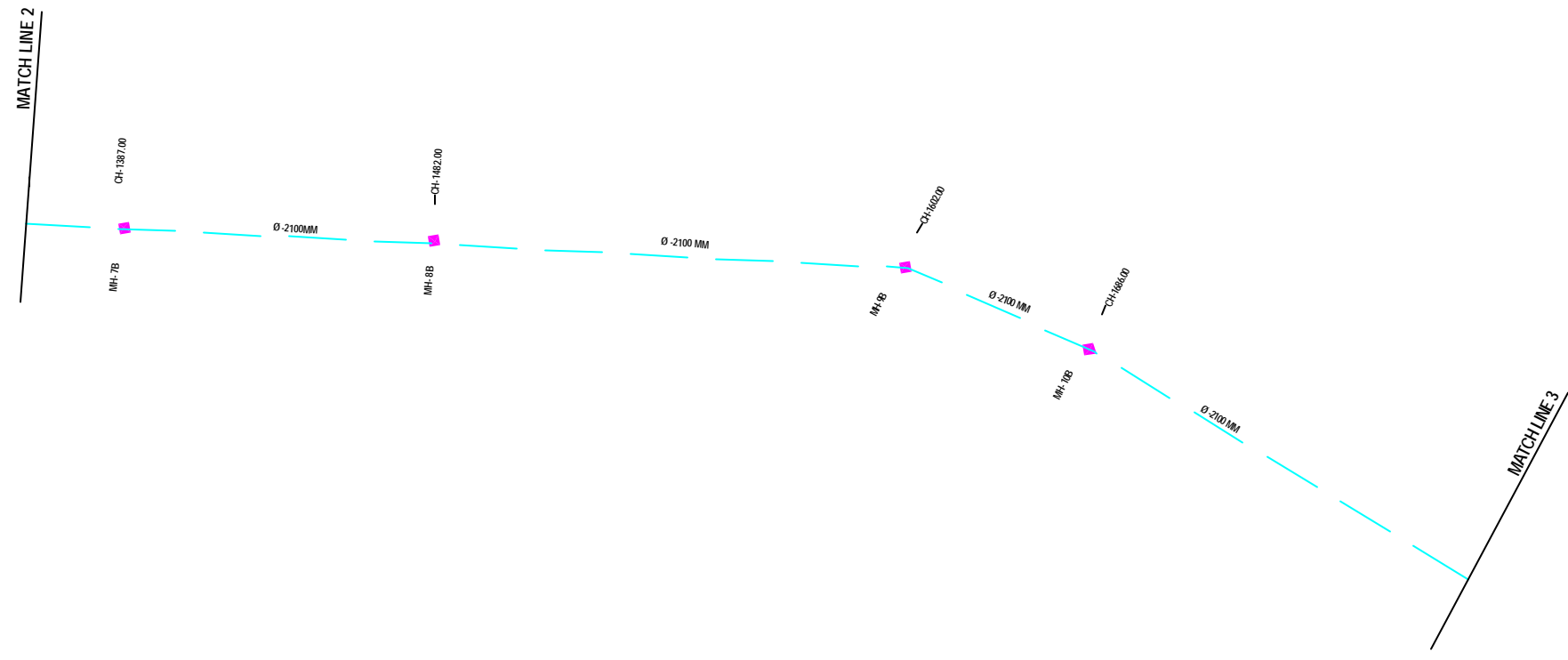
PROJECT:
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA
 FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM TUBE WELL NO. 5 CANTONMENT AREA TO CHABBILLE PURWA (MEETING POINT OF 60" TRUNK SEWER) (SHEET 2/5)

DRAWING NO.	SR. NO.
KAN-PPM-TC-2	79



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

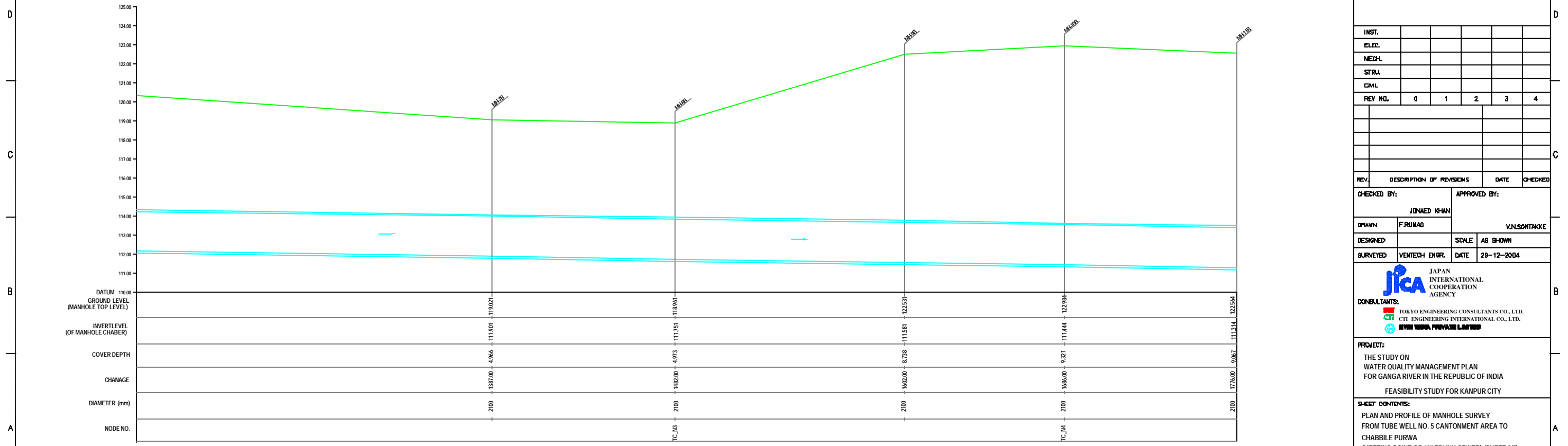


PLAN
 SCALE- 1 : 1000

LEGEND

EXISTING SEWER LINE	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUMBER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	TBM-117.700 M.

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1
 4) DATCHMENT AREA KAN-CAN-01-1



L-SECTION
 SCALE- HOR. 1 : 1000, VER. 1 : 100

INST.					
ELEC.					
MECH.					
STRA.					
CIVIL					
REV. NO.	0	1	2	3	4
REV.					
DESCRIPTION OF REVISIONS					
DATE					
CHECKED					

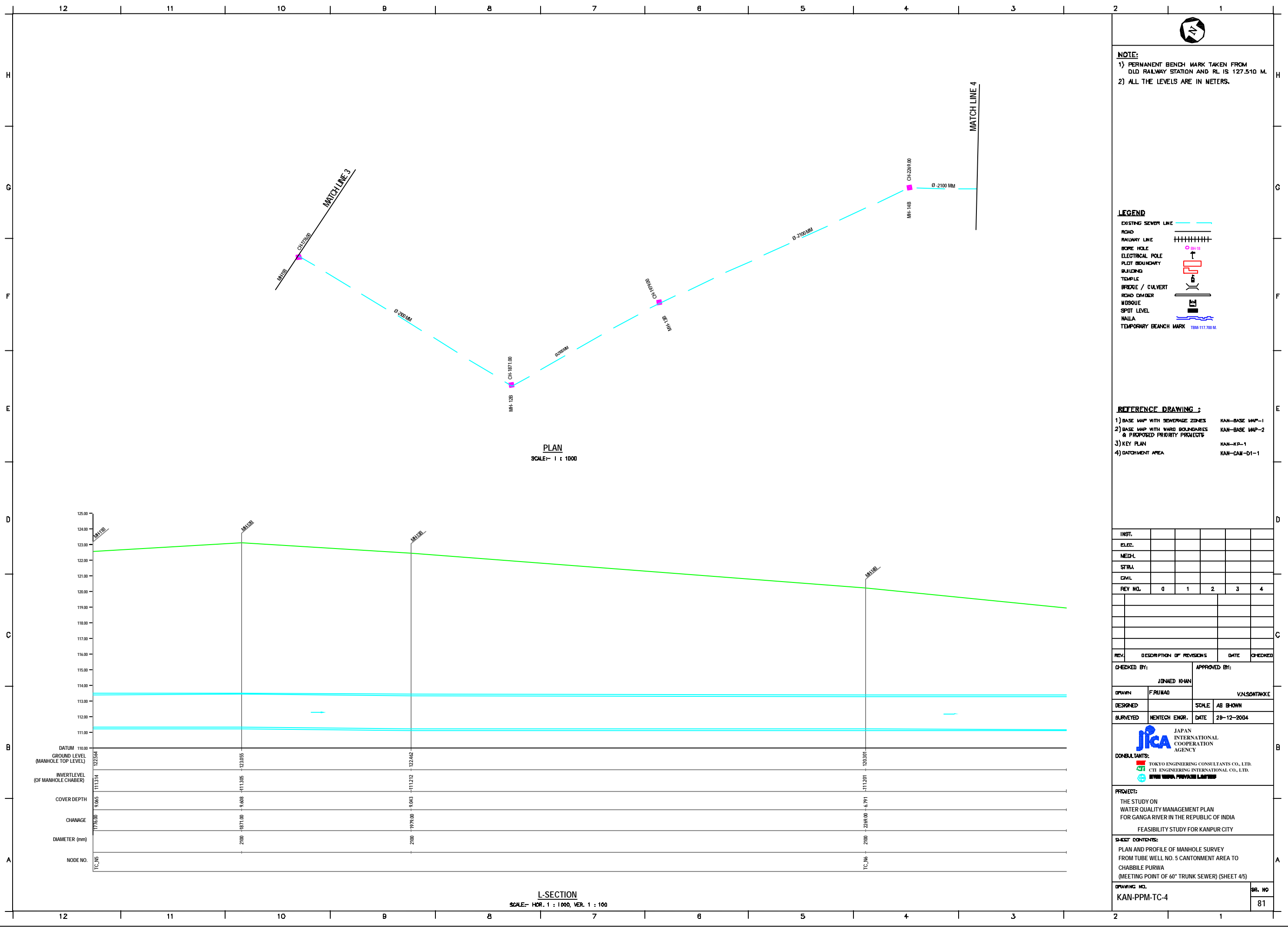
CHECKED BY: **JOHNAED KHAN**
 APPROVED BY: **V.N.SCHTAKKE**
 DRAWN: **FERUJAO**
 DESIGNED: **SCALE AS SHOWN**
 SURVEYED: **VENTECH ENGR. DATE 28-12-2004**



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

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM TUBE WELL NO. 5 CANTONMENT AREA TO CHABBHILE PURWA (MEETING POINT OF 60" TRUNK SEWER) (SHEET 3/5)

DRAWING NO. KAN-PPM-TC-3
SR. NO. 80



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

EXISTING SEWER LINE	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CROWD	
HOUSE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	TBM-117.700 M.

REFERENCE DRAWING :

1) BASE MAP WITH SEWERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) DATCHMENT AREA	KAN-CAN-01-1

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

CHECKED BY: **JOHNAED KHAN**
 APPROVED BY: **V.N.SCHTAKKE**

DRAWN: **FERUJIAO**
 DESIGNED: **SCALE AS SHOWN**

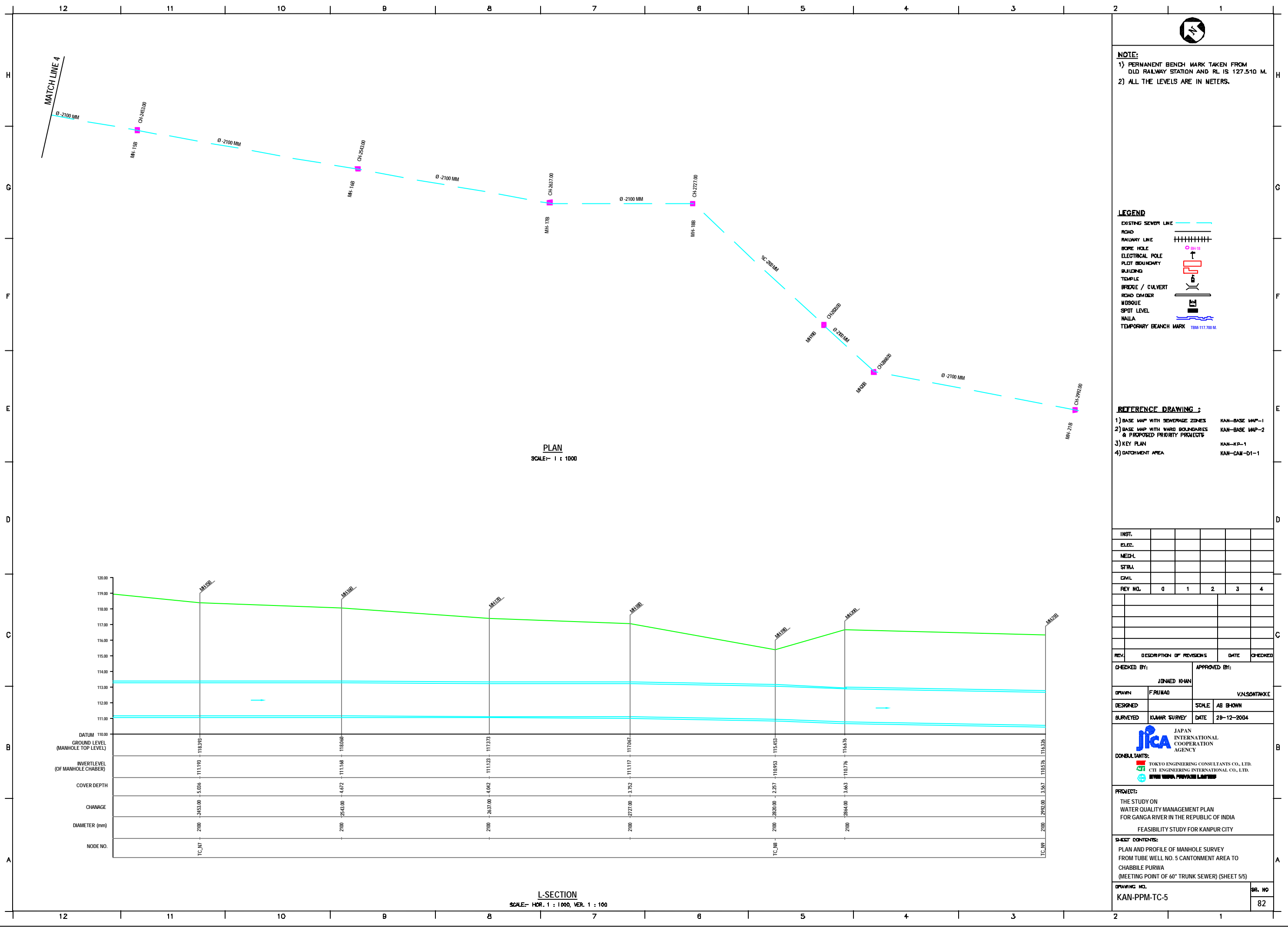
SURVEYED: **NENTECH ENGR.** DATE: **29-12-2004**

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 NTPS WATER PURWASHI LIMITED

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

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM TUBE WELL NO. 5 CANTONMENT AREA TO CHABBILE PURWA (MEETING POINT OF 60" TRUNK SEWER) (SHEET 4/5)

DRAWING NO. **KAN-PPM-TC-4** SR. NO. **81**



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

EXISTING SEWER LINE	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUMBER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	TBM-117.700 M.

REFERENCE DRAWING :

1) BASE MAP WITH SEWERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) DATCHMENT AREA	KAN-CAN-01-1

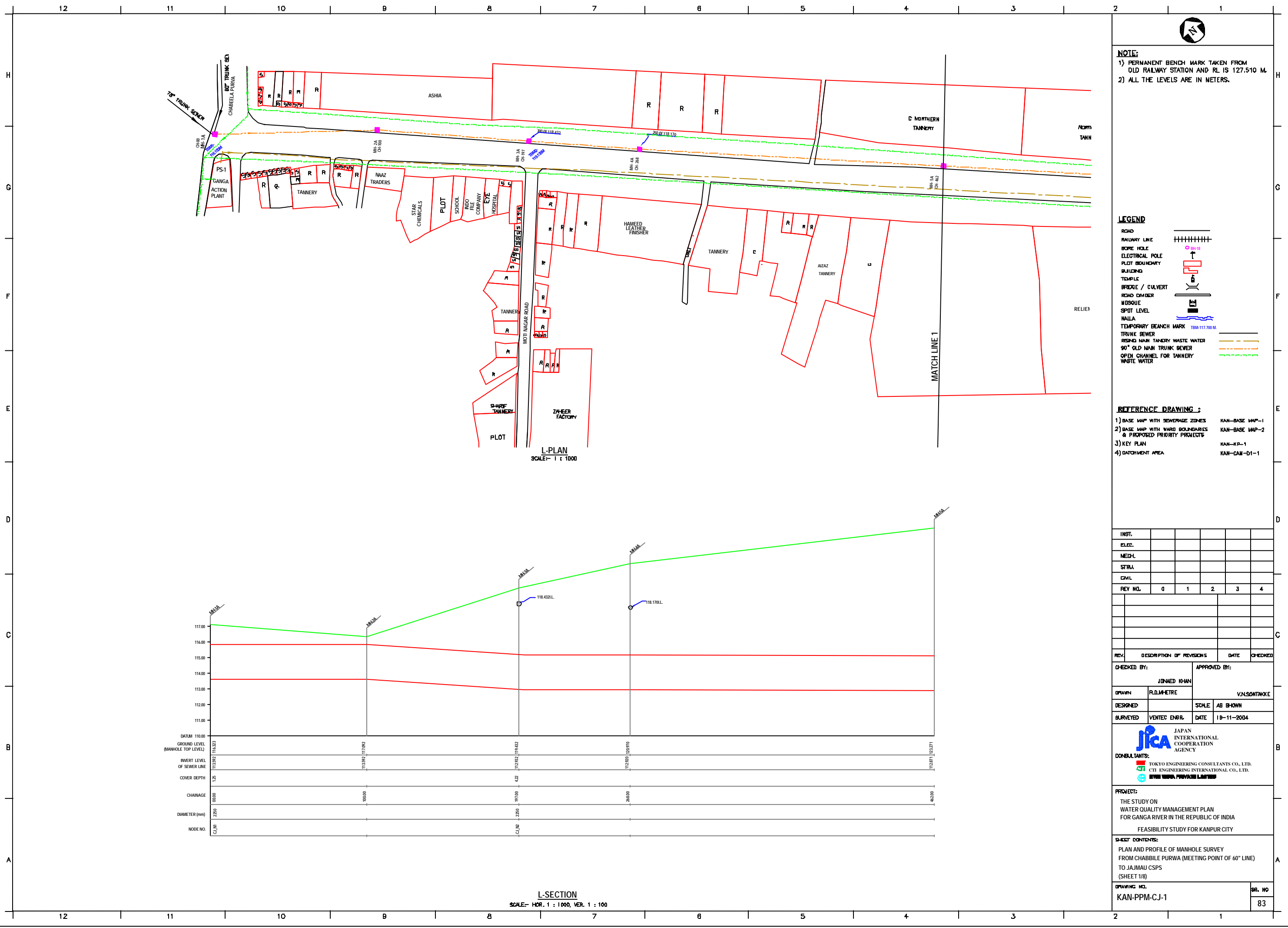
INST.					
ELEC.					
MECH.					
STRA.					
CIVIL					
REV. NO.	0	1	2	3	4

CHECKED BY:	APPROVED BY:
JOHNAED KHAN	V.N.SCHTAKKE
DRAWN: FRIJIAO	SCALE: AS SHOWN
DESIGNED:	DATE: 28-12-2004

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SURESH KUMAR PURVAIAH LIMITED

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

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM TUBE WELL NO. 5 CANTONMENT AREA TO CHABBILE PURWA (MEETING POINT OF 60" TRUNK SEWER) (SHEET 5/5)



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

ROAD	
RAILWAY LINE	+++++
BONE HOLE	○
ELECTRICAL POLE	⊥
PLOT BOUNDARY	□
BUILDING	▭
TEMPLE	⊕
BRIDGE / CULVERT	⌒
ROAD DIVIDER	— —
MOSQUE	⬤
SPOT LEVEL	⊙
NALLA	~
TEMPORARY BEANCH MARK	⊕
TRUNK BOWER	—
RISING MAIN TANNERY WASTE WATER	—
90° OLD MAIN TRUNK SEWER	—
OPEN CHANNEL FOR TANNERY WASTE WATER	—

REFERENCE DRAWING :

1) BASE MAP WITH SEWERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) DATCHMENT AREA	KAN-CAN-01-1

INST.					
ELEC.					
MECH.					
STR.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
CHECKED BY: JOHNAED KHAN			
APPROVED BY: V.N.SCHTAKKE			
DRAWN	R.D.METRE	SCALE	AS SHOWN
DESIGNED		DATE	19-11-2004

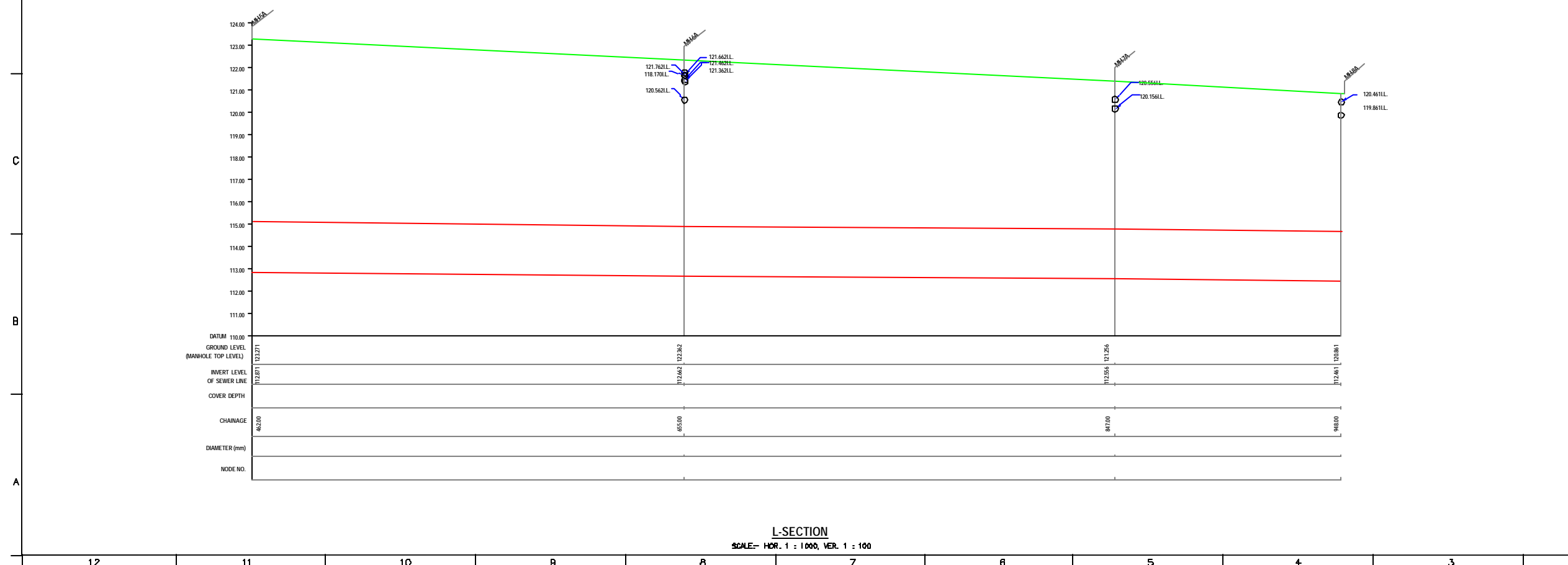
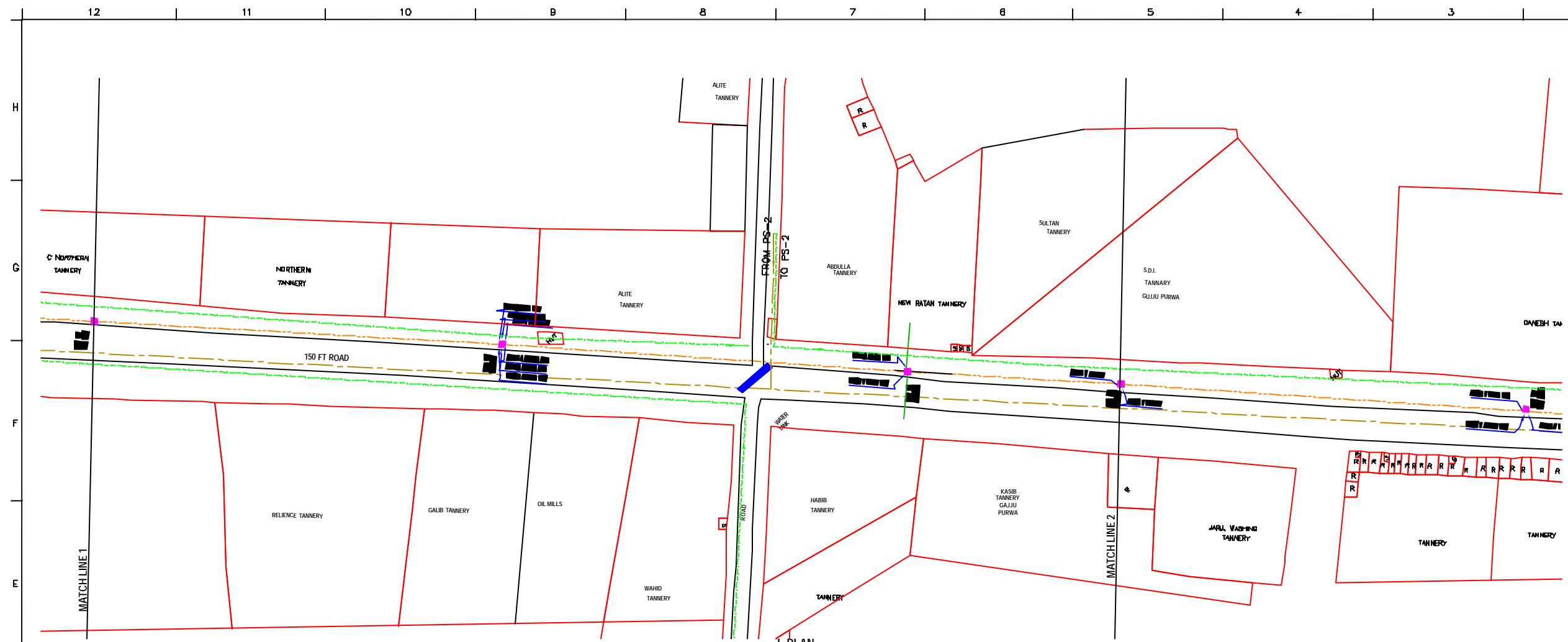
JICA INTERNATIONAL COOPERATION AGENCY

CONSULTANTS:

TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 JAYAPRAKASH ENGINEERING PRIVATE LIMITED

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

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM CHABBILE PURWA (MEETING POINT OF 60" LINE) TO JAJMAU CSPS (SHEET 1/8)



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

- ROAD
- RAILWAY LINE
- BONE HOLE
- ELECTRICAL POLE
- PLOT BOUNDARY
- BUILDING
- TEMPLE
- BRIDGE / CULVERT
- ROAD DIVIDER
- MDSQUE
- SPOT LEVEL
- NALLA
- TEMPORARY BENCH MARK (BM-117.700 M)
- TRUNK SEWER
- ISING MAIN TANNERY WASTE WATER
- 90" OLD MAIN TRUNK SEWER
- OPEN CHANNEL FOR TANNERY WASTE WATER

- REFERENCE DRAWING :**
- 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 - 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 - 3) KEY PLAN KAN-KP-1
 - 4) DATCHMENT AREA KAN-CAN-D1-1

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
CHECKED BY:	JOHNEED KHAN		
APPROVED BY:	V.N.SCHTAKKE		
DRAWN	R.D.METRE	SCALE	AS SHOWN
DESIGNED		DATE	18-11-2004

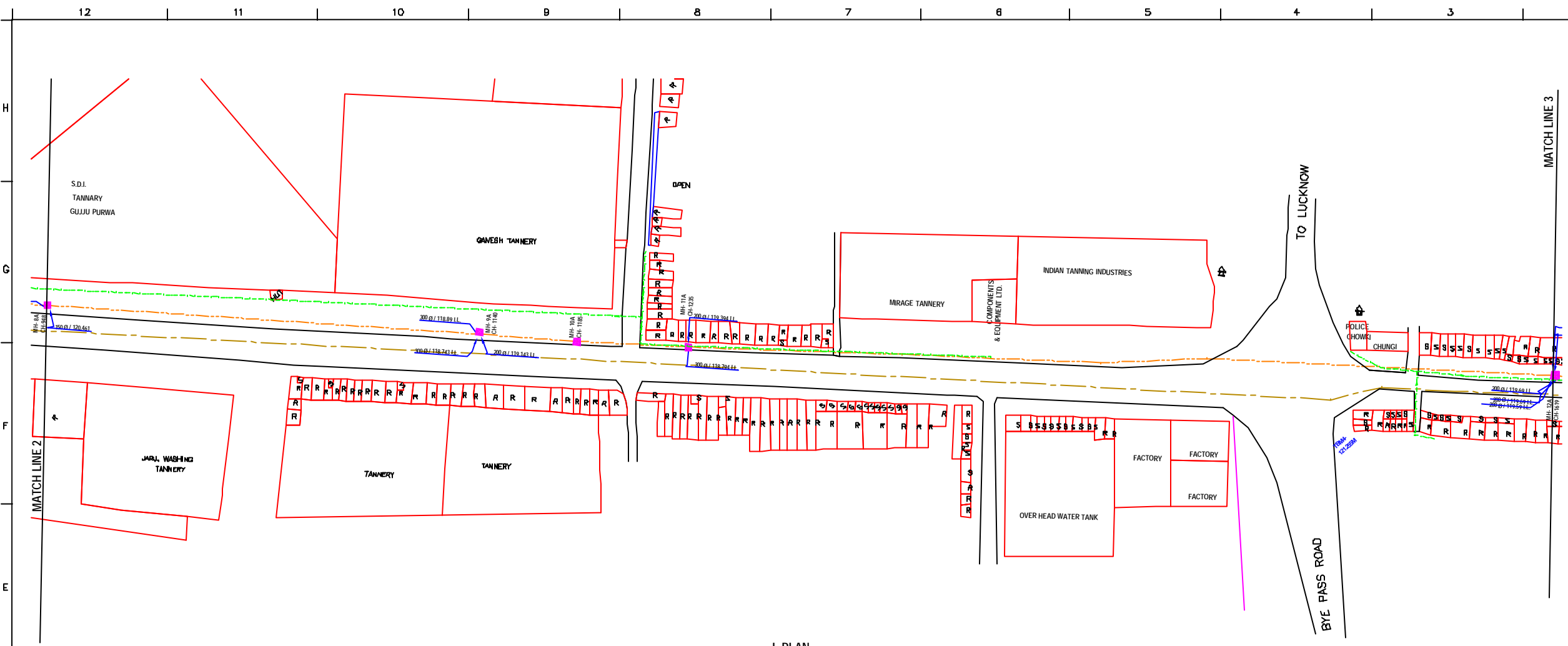
JICA INTERNATIONAL COOPERATION AGENCY

CONSULTANTS:

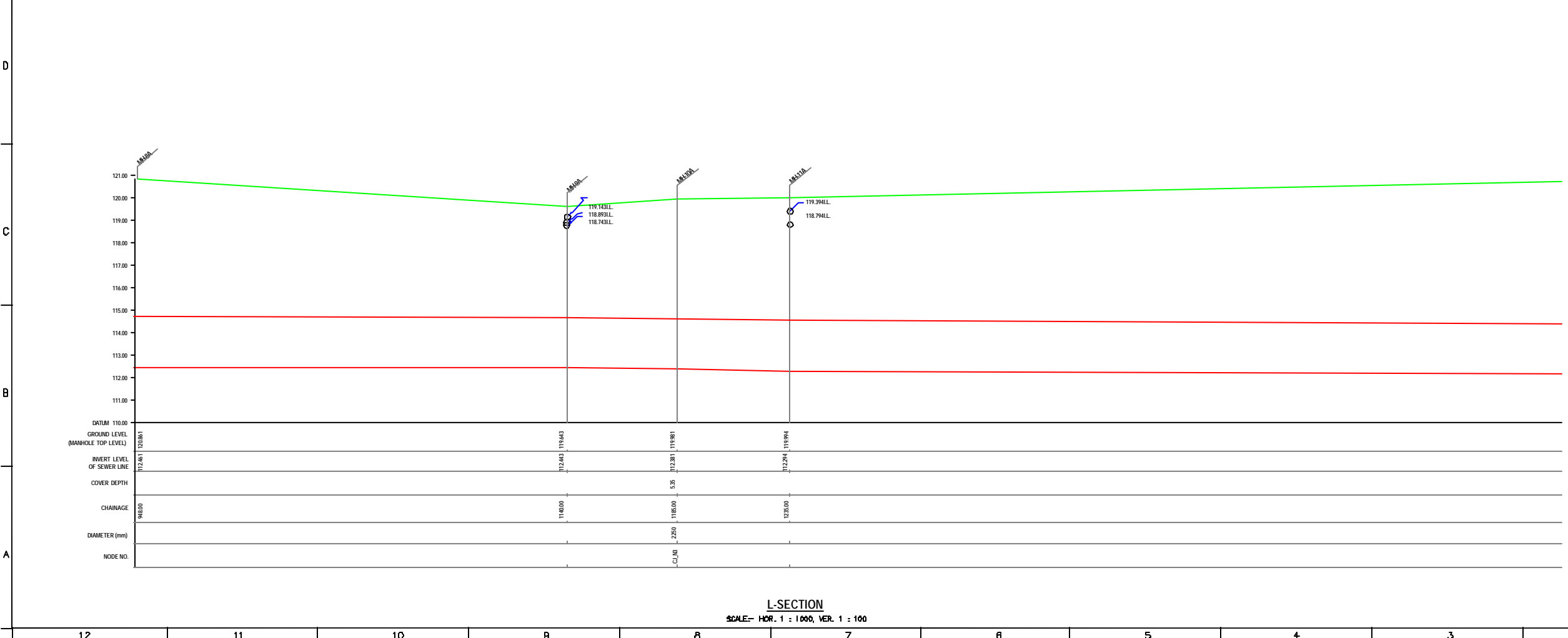
- TOKYO ENGINEERING CONSULTANTS CO., LTD.
- CTI ENGINEERING INTERNATIONAL CO., LTD.
- SHRI VEER PRAKASH LIMITED

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

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM CHABBILE PURWA (MEETING POINT OF 60" LINE) TO JAJMAU CSPS (SHEET 2/8)



L-PLAN
SCALE= 1 : 1000



L-SECTION
SCALE= HOR. 1 : 1000, VER. 1 : 100

NOTE:
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
2) ALL THE LEVELS ARE IN METERS.

LEGEND

ROAD	
RAILWAY LINE	
BONE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MUSOLE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
TRUNK BOWER	
RIISING MAIN TANNERY WASTE WATER	
90° OLD MAIN TRUNK SEWER	
WASTE WATER	

REFERENCE DRAWING :
1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
3) KEY PLAN KAN-KP-1
4) DATCHMENT AREA KAN-CAN-01-1

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

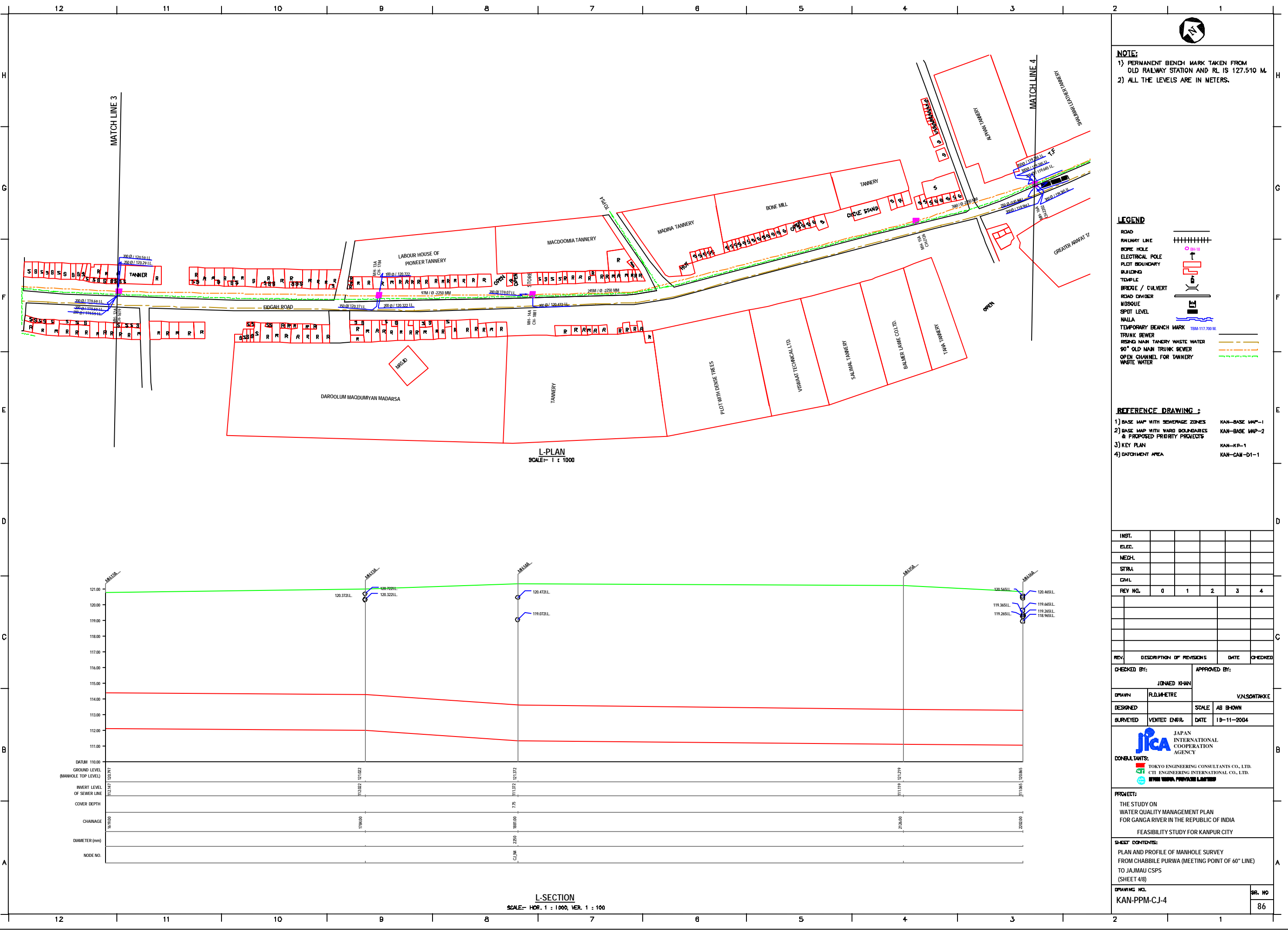
REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
CHECKED BY: JUNAED KHAN		APPROVED BY: V.N.SCHTAKKE	
DRAWN	R.D.METRE	SCALE	AS SHOWN
DESIGNED		DATE	18-11-2004

JICA INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 JAYAPRA PURVA LIMITED

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

SHEET CONTENTS:
PLAN AND PROFILE OF MANHOLE SURVEY FROM CHABBILE PURWA (MEETING POINT OF 60° LINE) TO JAJMAU CSPS (SHEET 3/8)

DRAWING NO.	SR. NO.
KAN-PPM-CJ-3	85



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

ROAD	+++++
RAILWAY LINE	
BONE HOLE	○
ELECTRICAL POLE	⊥
PLOT BOUNDARY	—
BUILDING	▭
TEMPLE	⊕
BRIDGE / CULVERT	—
ROAD CUMBER	—
INDUOUE	—
SPOT LEVEL	⊕
NALLA	—
TEMPORARY BENCH MARK	⊕
TRUNK BOWER	—
RISEING MAIN TANNERY WASTE WATER	—
90° OLD MAIN TRUNK SEWER	—
OPEN CHANNEL FOR TANNERY WASTE WATER	—

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1
 4) DATCHMENT AREA KAN-CAN-01-1

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

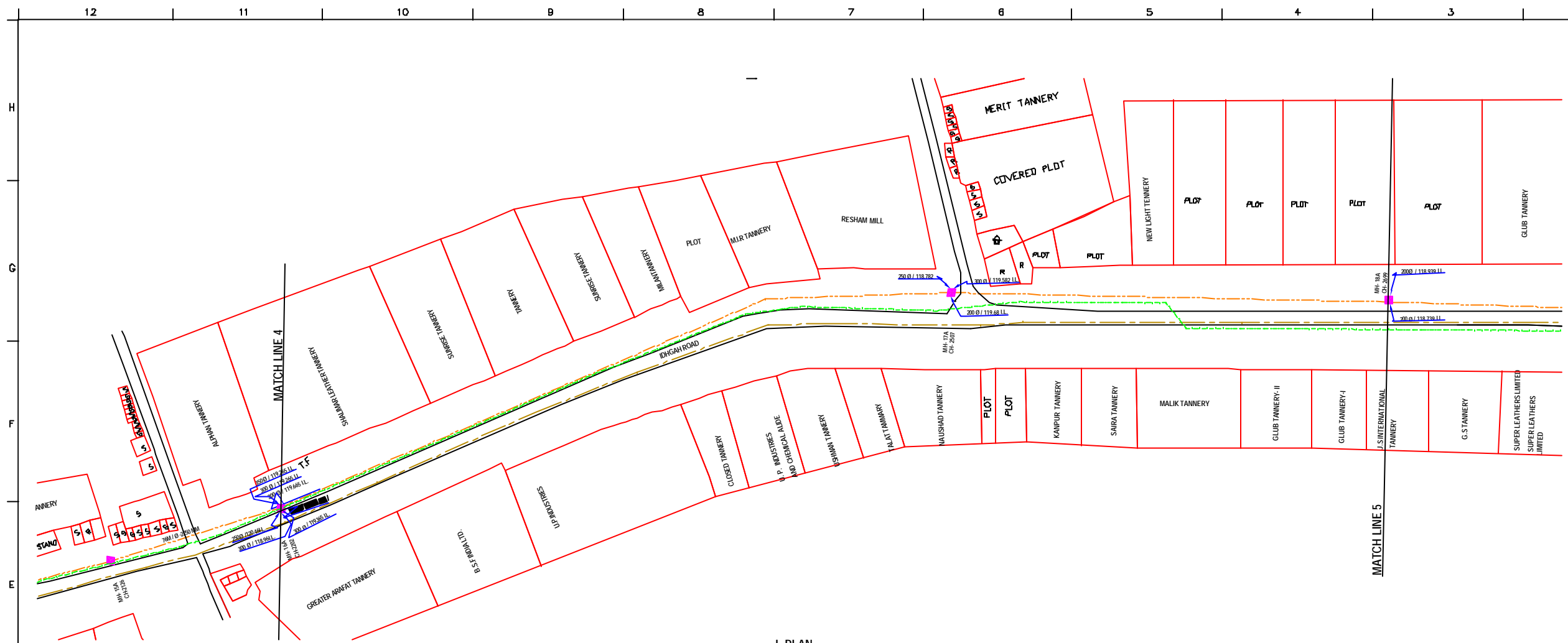
REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
CHECKED BY: JUNAED KHAN		APPROVED BY: V.N.SCHTAKKE	
DRAWN	R.D.METRE	SCALE	AS SHOWN
DESIGNED		DATE	18-11-2004

JICA INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SURESH PRAKASH LIMITED

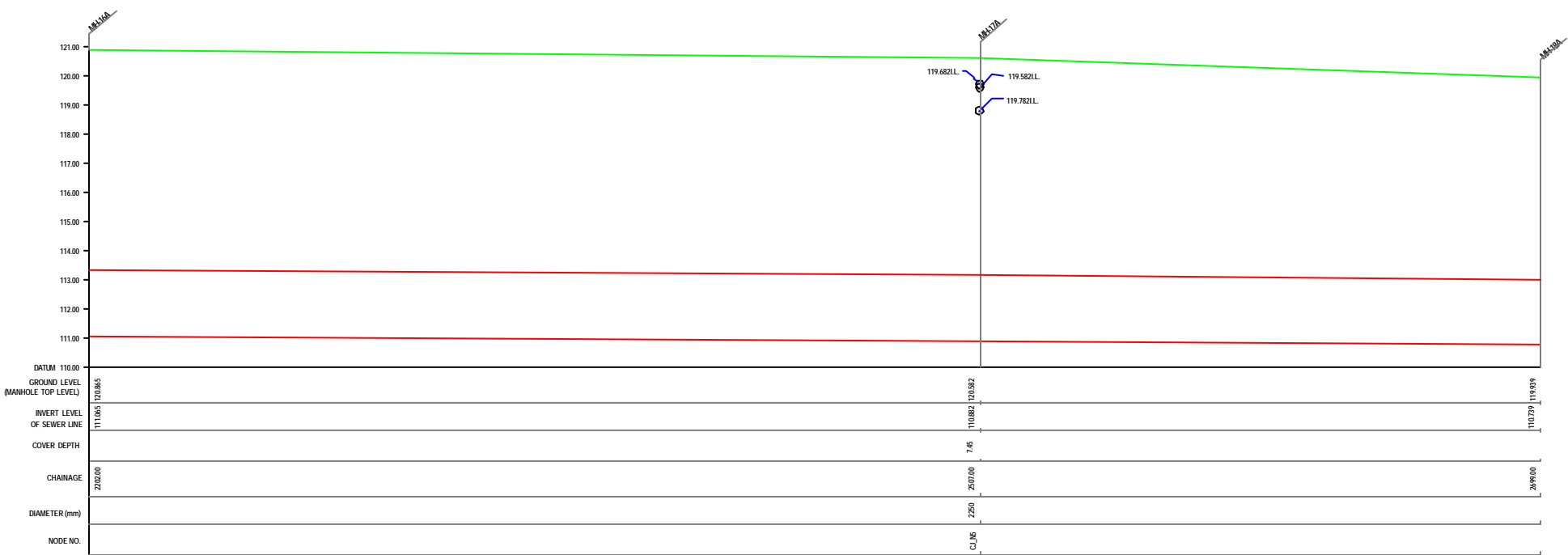
PROJECT:
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA
 FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM CHABBILE PURWA (MEETING POINT OF 60° LINE) TO JAJMAU CSPS (SHEET 4/8)

DRAWING NO. KAN-PPM-CJ-4
SR. NO. 86



L-PLAN
SCALE= 1 : 1000



L-SECTION
SCALE= HOR. 1 : 1000, VER. 1 : 100

NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

ROAD	
RAILWAY LINE	
BONE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
HOUSE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
TRUNK SEWER	
RIISING MAIN TANNERY WASTE WATER	
90° OLD MAIN TRUNK SEWER	
OPEN CHANNEL FOR TANNERY WASTE WATER	

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1
 4) DATCHMENT AREA KAN-CAN-01-1

INST.					
ELEC.					
MECH.					
STR.					
CIVIL					
REV. NO.	0	1	2	3	4
REV.					
DESCRIPTION OF REVISIONS					
DATE					
CHECKED					

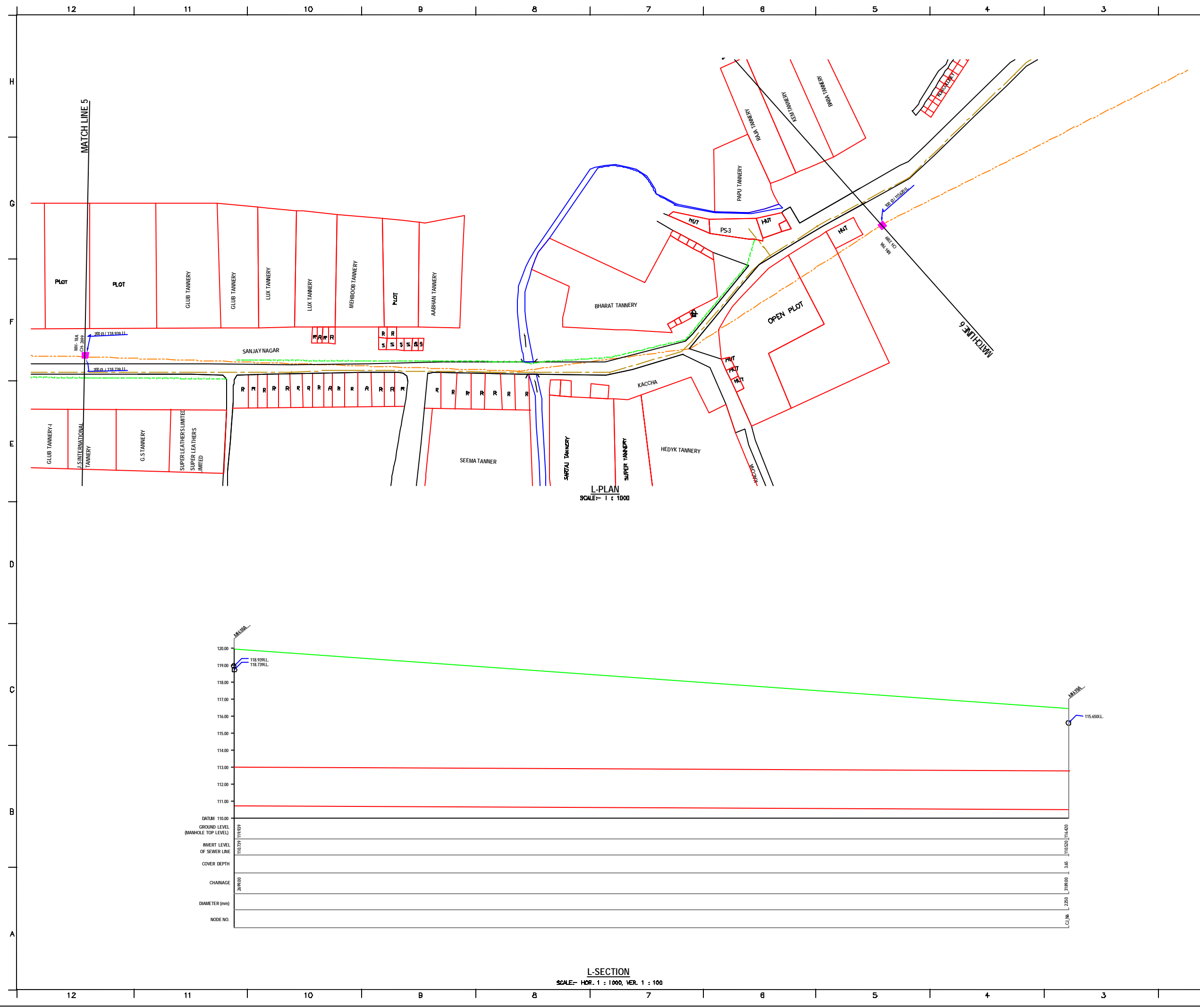
CHECKED BY: **JOHNAED KHAN**
 APPROVED BY: **V.N.SCHTAKKE**
 DRAWN: **R.D.METRE**
 DESIGNED: **SCALE AS SHOWN**
 SURVEYED: **VENTEC ENGR. DATE 18-11-2004**



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

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM CHABBILE PURWA (MEETING POINT OF 60° LINE) TO JAJMAU CSPS (SHEET 5/8)

DRAWING NO. **KAN-PPM-CJ-5** SR. NO. **87**



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

ROAD	+++++
RAILWAY LINE	
BONE HOLE	○
ELECTRICAL POLE	⊥
PLOT BOUNDARY	—
BUILDING	▭
TEMPLE	⊕
BRIDGE / CULVERT	—
ROAD DIVIDER	—
INDUOUE	⊕
SPOT LEVEL	⊕
NALLA	—
TEMPORARY BENCH MARK	⊕
TRUNK SEWER	—
RIISING MAIN TANNERY WASTE WATER	—
90° OLD MAIN TRUNK SEWER	—
OPEN CHANNEL FOR TANNERY WASTE WATER	—

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1
 4) DATCHMENT AREA KAN-CAN-D1-1

INST.					
ELEC.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:	APPROVED BY:
JOHNAED KHAN	V.N.SCHTAKKE
DRAWN: R.D.METRE	SCALE: AS SHOWN
DESIGNED:	DATE: 19-11-2004
SURVEYED: VENTEC ENGR.	

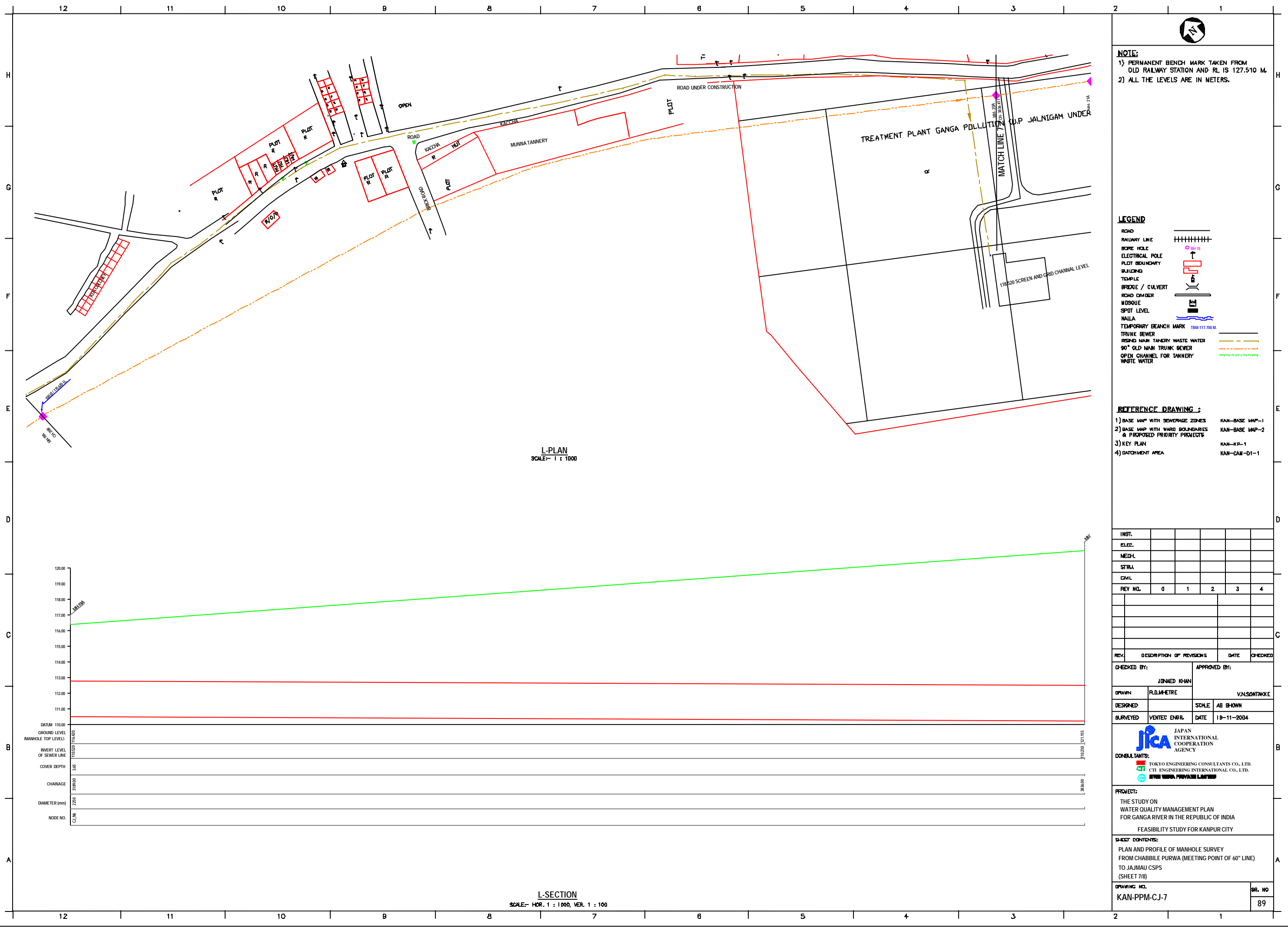
JICA INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SURESH PRAKASH LIMITED

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

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM CHABBILE PURWA (MEETING POINT OF 60° LINE) TO JAJMAU CSPS (SHEET 6/8)

DRAWING NO. KAN-PPM-CJ-6
 SR. NO. 88

L-SECTION
 SCALE- HOR. 1 : 1000, VER. 1 : 100



L-PLAN
SCALE= 1 : 1000

L-SECTION
SCALE= HOR. 1 : 1000, VER. 1 : 100

NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	
TRUNK SEWER	
RISING MAIN TANNERY WASTE WATER	
90° OLD MAIN TRUNK SEWER	
OPEN CHANNEL FOR TANNERY WASTE WATER	

REFERENCE DRAWING :

1) BASE MAP WITH SEWERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) DATCHMENT AREA	KAN-CAN-D1-1

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

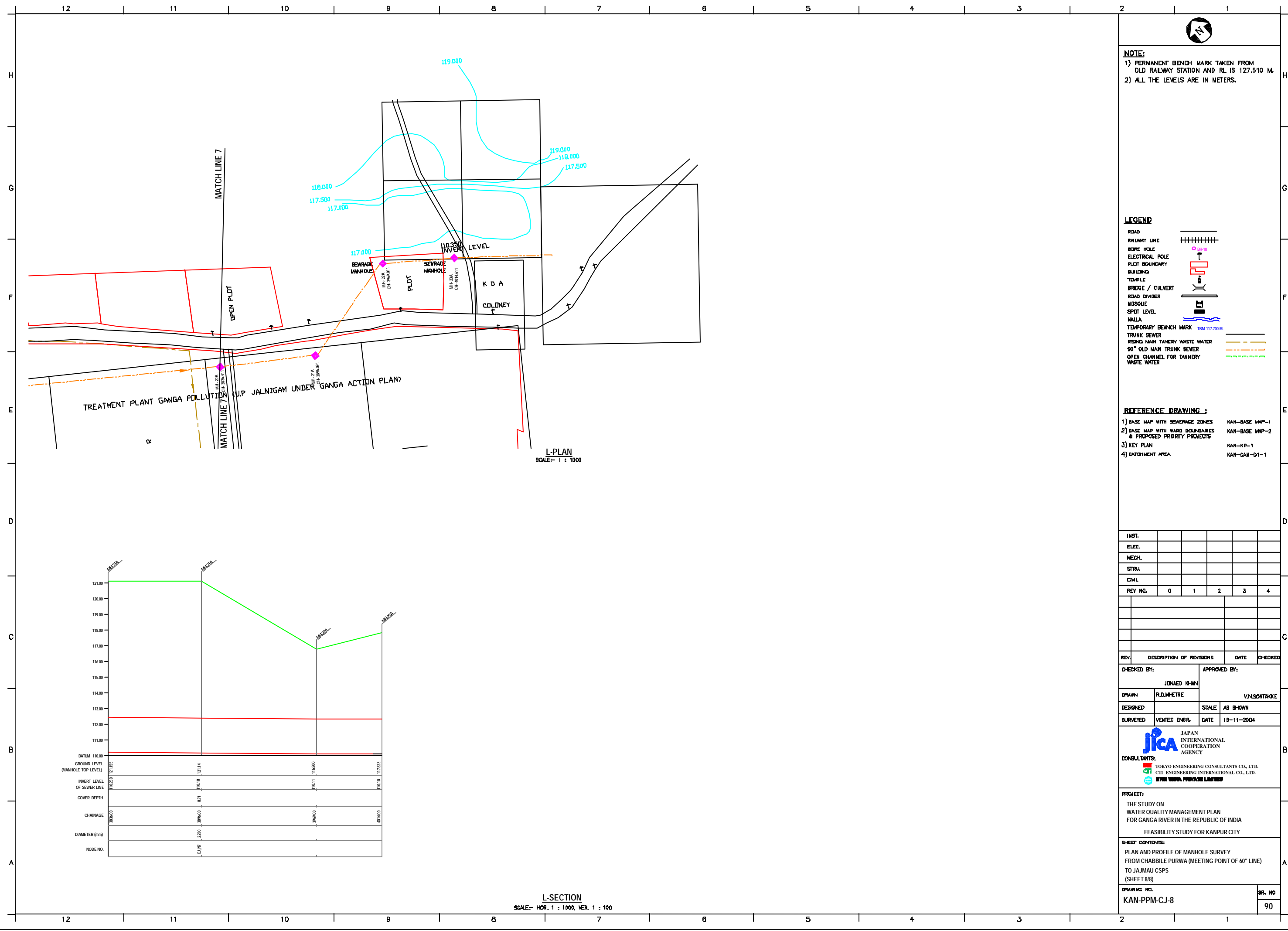
CHECKED BY: **JOHNEED KHAN**
 APPROVED BY: **V.N.SCHTAKKE**
 DRAWN: **R.D.METRE**
 DESIGNED: **SCALE AS SHOWN**
 SURVEYED: **VENTEC ENGR. DATE 18-11-2004**

JICA INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SIVAS PRAVAAS LIMITED

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

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM CHABBILE PURWA (MEETING POINT OF 60° LINE) TO JAJMAU CSPS (SHEET 7/8)

DRAWING NO. **KAN-PPM-CJ-7** SR. NO. **89**



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

ROAD	—————
RAILWAY LINE	+++++
BORE HOLE	○ BH-18
ELECTRICAL POLE	⊥
PLLOT BOUNDARY	□
BUILDING	▭
TEMPLE	⊕
BRIDGE / CULVERT	— —
ROAD DIVIDER	— — —
MOSQUE	⊕
SPOT LEVEL	•
NALLA	~~~~~
TEMPORARY BENCH MARK	TBM-117.700 M.
TRUNK SEWER	—————
RISSING MAIN TANNERY WASTE WATER	—————
90° OLD MAIN TRUNK SEWER	—————
OPEN CHANNEL FOR TANNERY WASTE WATER	—————

REFERENCE DRAWING :

1) BASE MAP WITH SEWERAGE ZONES	KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS	KAN-BASE MAP-2
3) KEY PLAN	KAN-KP-1
4) DATCHMENT AREA	KAN-CAN-01-1

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: **JOHNAED KHAN**
 APPROVED BY: **V.N.SCHTAKKE**

DRAWN: **R.D.METRE**
 DESIGNED: **SCALE AS SHOWN**
 SURVEYED: **VENTEC ENGR. DATE 18-11-2004**



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

SHEET CONTENTS:
 PLAN AND PROFILE OF MANHOLE SURVEY FROM CHABBILE PURWA (MEETING POINT OF 60° LINE) TO JAJMAU CSDS (SHEET 8/8)

DRAWING NO. **KAN-PPM-CJ-8** SR. NO. **90**



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

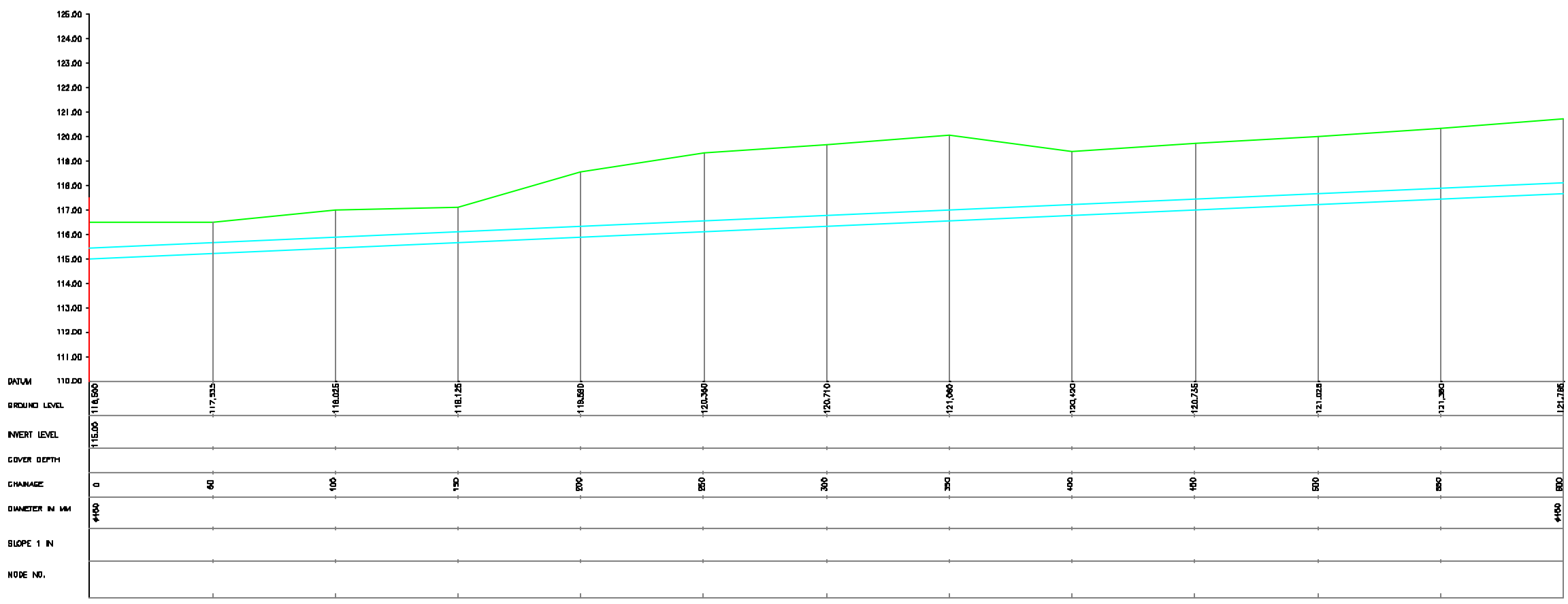
LEGEND

PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUM DRAIN	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1



PLAN
 SCALE- 1 : 1000



L-SECTION
 SCALE- HOR. 1 : 1000, VER. 1 : 100

INST.					
ELCD.					
MECH.					
STRU.					
CIVL.					
REV. NO.	0	1	2	3	4
REV.					
DESCRIPTION OF REVISIONS					
DATE					
CHECKED					

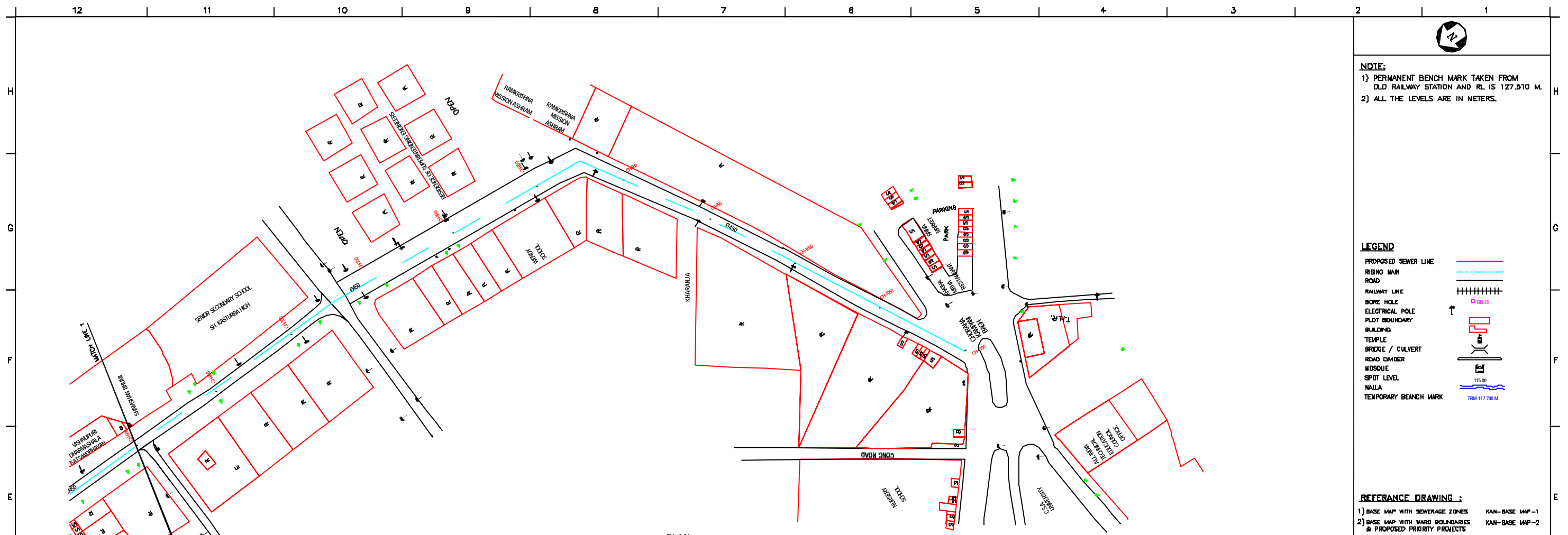
CHECKED BY: **JOHNAED KHAN**
 APPROVED BY: **V.N.SCHTAKKE**
 DRAWN: **R.D.METRE**
 DESIGNED: **P.N.PABREKAR** SCALE: **AS SHOWN**
 SURVEYED: **KUMAR SURVEY** DATE: **23-11-2004**

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.
 SHRI SHRI PRAKASH LIMITED

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

SHEET CONTENTS:
 PLAN & PROFILE OF RISING MAIN FROM NAWAB GANJ SPS TO COMPANY BAUG CHOURAHA (SHEET 1/2)

DRAWING NO. KAN-PP-NC-1
SR. NO. 91



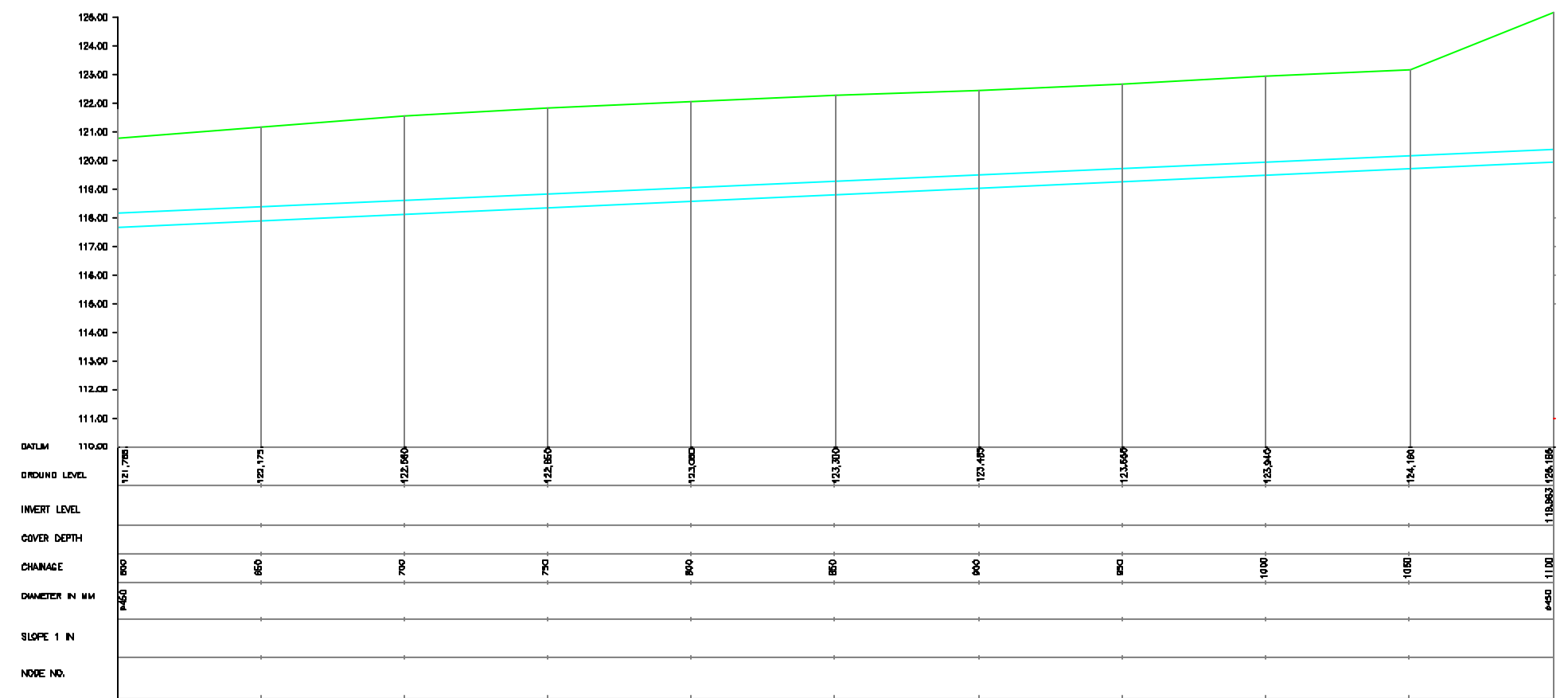
PLAN
SCALE- 1 : 1000

NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD CUMBER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1



L-SECTION
 SCALE- HOR. 1 : 1000, VER. 1 : 100

INST.					
EDUC.					
MECH.					
STRU.					
CIVIL					
REV. NO.	0	1	2	3	4
REV.					
DESCRIPTION OF REVISIONS					
DATE					
CHECKED					

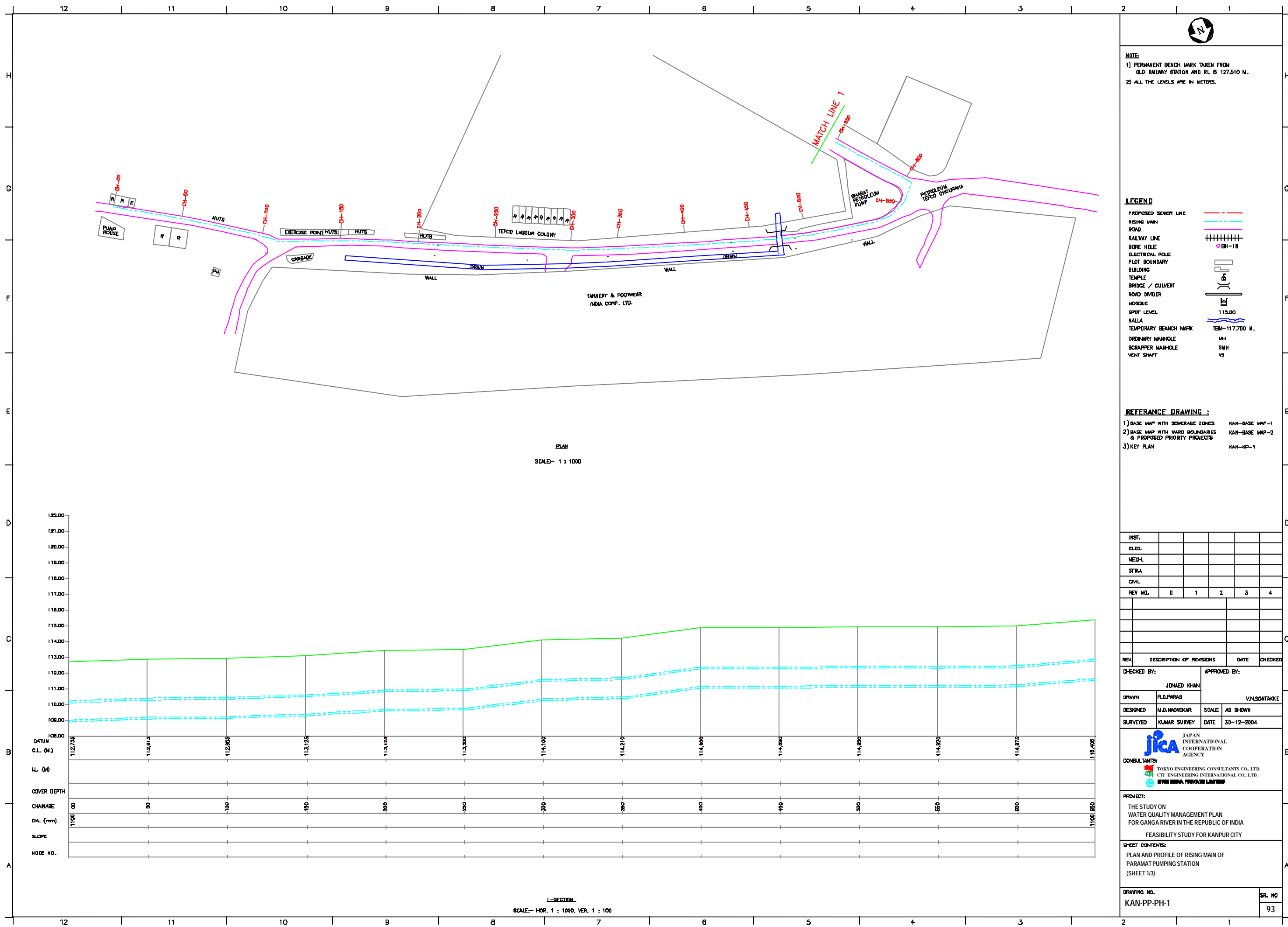
CHECKED BY:		APPROVED BY:	
JUNAED KHAN		V.N.SCHTAKKE	
DRAWN	R.D.METRE	SCALE	AS SHOWN
DESIGNED	P. N. PABREKAR	DATE	23-11-2004
SURVEYED KUMAR SURVEY			

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SHRI SHRI PRAKASH LIMITED

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

SHEET CONTENTS:
 PLAN & PROFILE OF RISING MAIN FROM NAWAB GANJ SPS TO COMPANY BAUG CHOURAHA (SHEET 2/2)

DRAWING NO.	SR. NO.
KAN-PP-NC-2	92



NOTE
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

PROPOSED SEWER LINE	---
RISING MAIN	---
ROAD	---
RAILWAY LINE	
BORE HOLE	○ BH-1/B
ELECTRICAL POLE	⊥
PLOT BOUNDARY	---
BUILDING	▭
TEMPLE	⊕
BRIDGE / CULVERT	⌒
ROAD DIVIDER	---
MOSQUE	⊕
SPOT LEVEL	115.00
NALLA	---
TEMPORARY BENCH MARK	TEM-117.700 M.
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHAFT	VS

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1

INST.					
ELCD.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: JUNAED KHAN
APPROVED BY: V.N.SONTAKKE
DESIGNED: N.D.NAGVEKAR
SCALE: AS SHOWN
BURVEYED: KUMAR SURVEY
DATE: 30-12-2004

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SHRI SHRI PRAKASH LIMITED

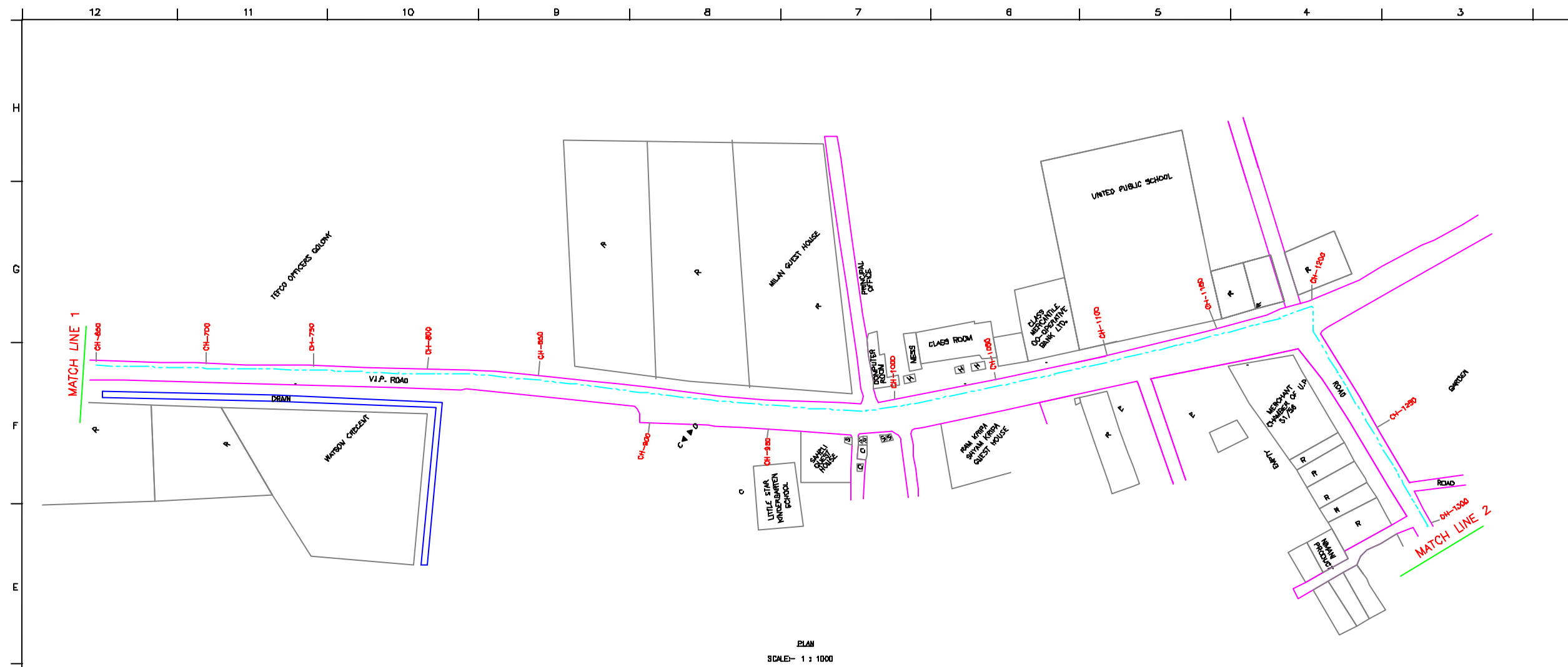
PROJECT:
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA
 FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS:
 PLAN AND PROFILE OF RISING MAIN OF PARAMAT PUMPING STATION (SHEET 1/3)

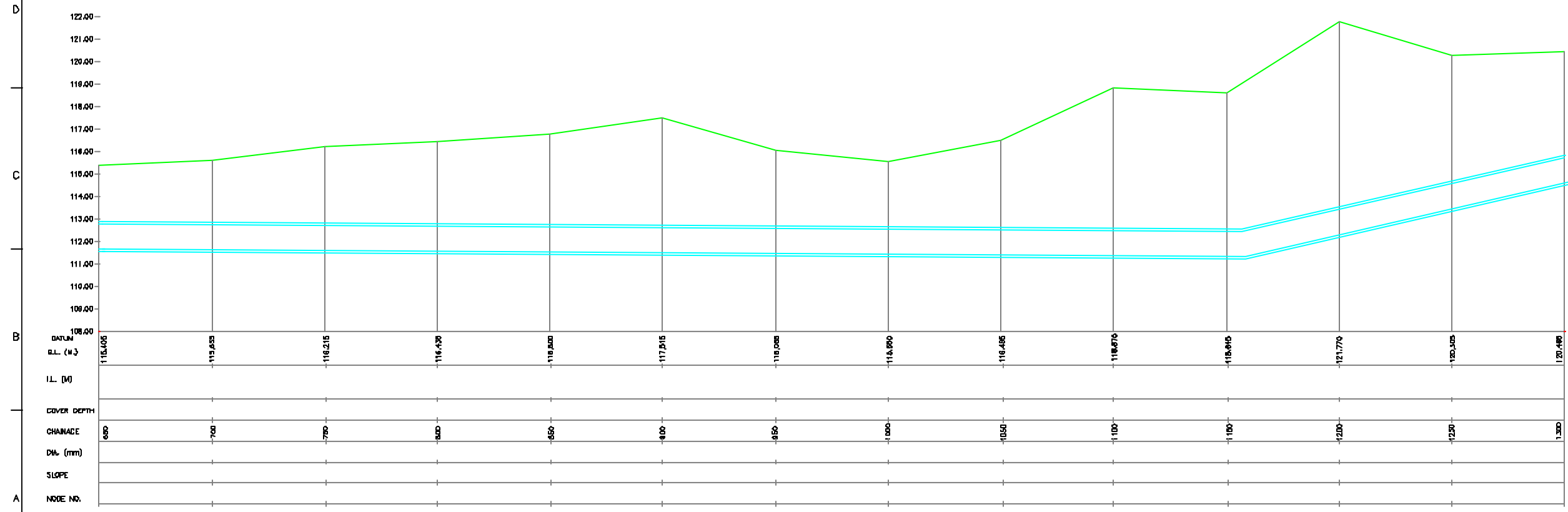
DRAWING NO. KAN-PP-PH-1
SR. NO. 93

PLAN
 SCALE- 1 : 1000

L-SECTION
 SCALE-- HOR. 1 : 1000, VER. 1 : 100



PLAN
SCALE- 1 : 1000



SECTION
SCALE-- HOR. 1 : 1000, VER. 1 : 100

NOTE
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
2) ALL THE LEVELS ARE IN METERS.

LEGEND

PROPOSED SEWER LINE	
PROPOSED MAIN	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOSQUE	
SPOT LEVEL	115.00
NALLA	
TEMPORARY BENCH MARK	TBM-117.700 M
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHAFT	VS

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1

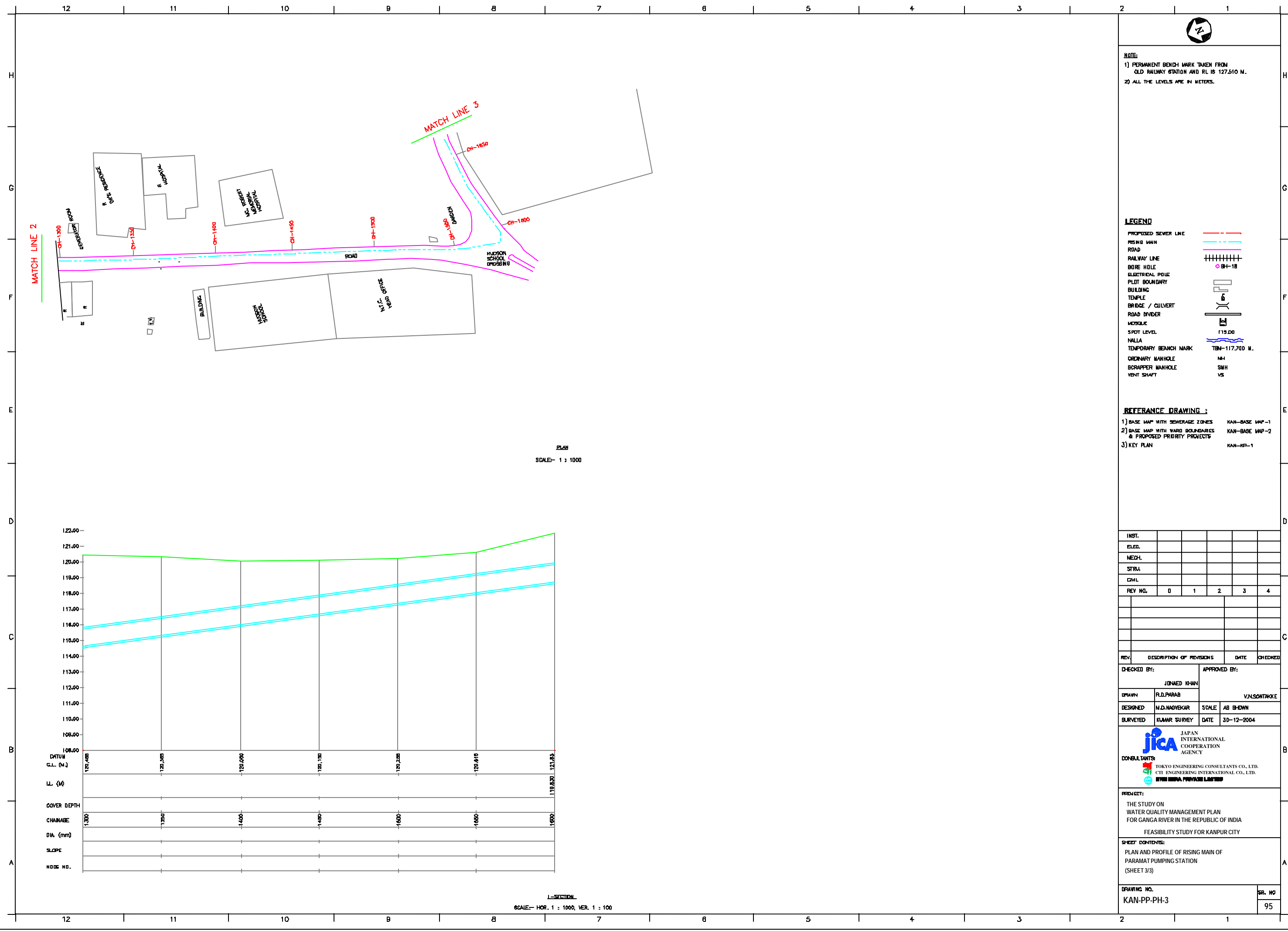
INST.					
ELCD.					
MECH.					
STRA.					
CIVIL					
REV. NO.	0	1	2	3	4

CHECKED BY:		APPROVED BY:	
JOHNAED KHAN		V.N.SONTAKKE	
DRAWN	R.D.PARAB	SCALE	AS SHOWN
DESIGNED	M.D.NAGVEKAR	DATE	30-12-2004
BURVEYED	KUMAR SURVEY		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SURESH PRAKASH LIMITED

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

SHEET CONTENTS:
 PLAN AND PROFILE OF RISING MAIN OF PARAMAT PUMPING STATION (SHEET 2/3)



PLAN
SCALE- 1 : 1000

1-SECTION
SCALE-- HOR. 1 : 1000, VER. 1 : 100



NOTE
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

PROPOSED SEWER LINE	
RISING MAIN	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOUSOLE	
SPOT LEVEL	
WALLA	
TEMPORARY BENCH MARK	TBM-117.700 M.
ORDINARY MANHOLE	MH
SCRAPER MANHOLE	SMH
VENT SHAFT	VS

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

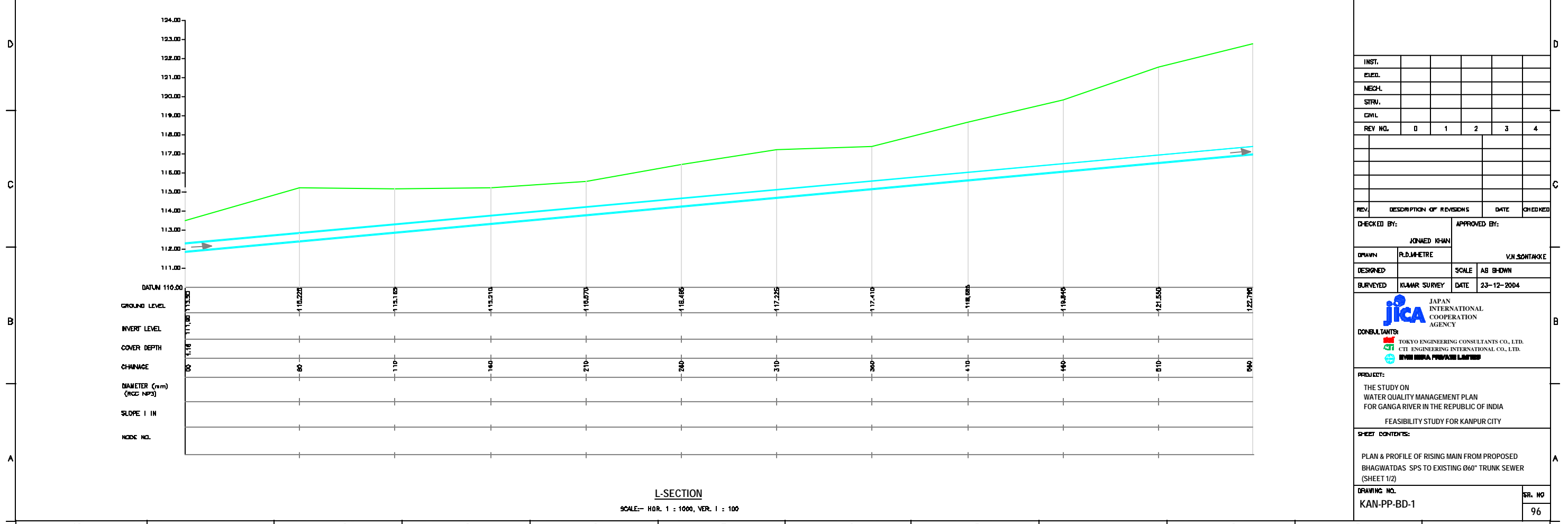
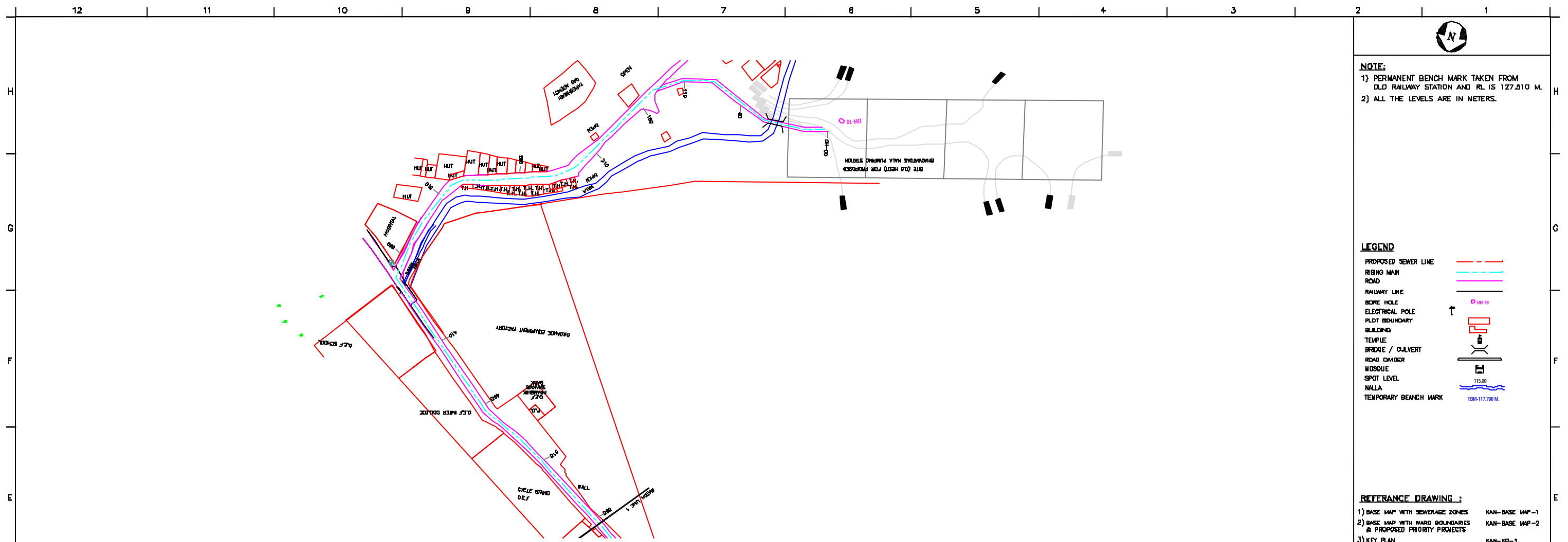
CHECKED BY: **JONMED KHAN**
 APPROVED BY: **V.N.SCHTAKKE**
 DRAWN: **R.D.PARAB**
 DESIGNED: **M.D.NAGVEKAR** SCALE: **AS SHOWN**
 SURVEYED: **KUMAR SURVEY** DATE: **30-12-2004**



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

SHEET CONTENTS:
 PLAN AND PROFILE OF RISING MAIN OF PARAMAT PUMPING STATION (SHEET 3/3)

DRAWING NO. **KAN-PP-PH-3** SR. NO. **95**



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.010 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

PROPOSED SEWER LINE	---
RISING MAIN ROAD	---
RAILWAY LINE	---
BENCH MARK	BM-118
ELECTRICAL POLE	↑
PLOT BOUNDARY	---
BUILDING	---
TEMPLE	---
BRIDGE / CULVERT	---
ROAD CUMBER	---
MOSQUE	---
SPOT LEVEL	115.00
NALLA	---
TEMPORARY BENCH MARK	TBM-117.700 M.

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1

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

CHECKED BY:	APPROVED BY:
JUNAED KHAN	V.N. SONTAKKE
DRAWN:	R.D. MATHRE
DESIGNED:	SCALE AS SHOWN
SURVEYED:	KUMAR SURVEY DATE 23-12-2004

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SURESH INFRA PRIVATE LIMITED

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

SHEET CONTENTS:
 PLAN & PROFILE OF RISING MAIN FROM PROPOSED BHAGWATDAS SPS TO EXISTING 600mm TRUNK SEWER (SHEET 1/2)

DRAWING NO.	SR. NO.
KAN-PP-BD-1	96

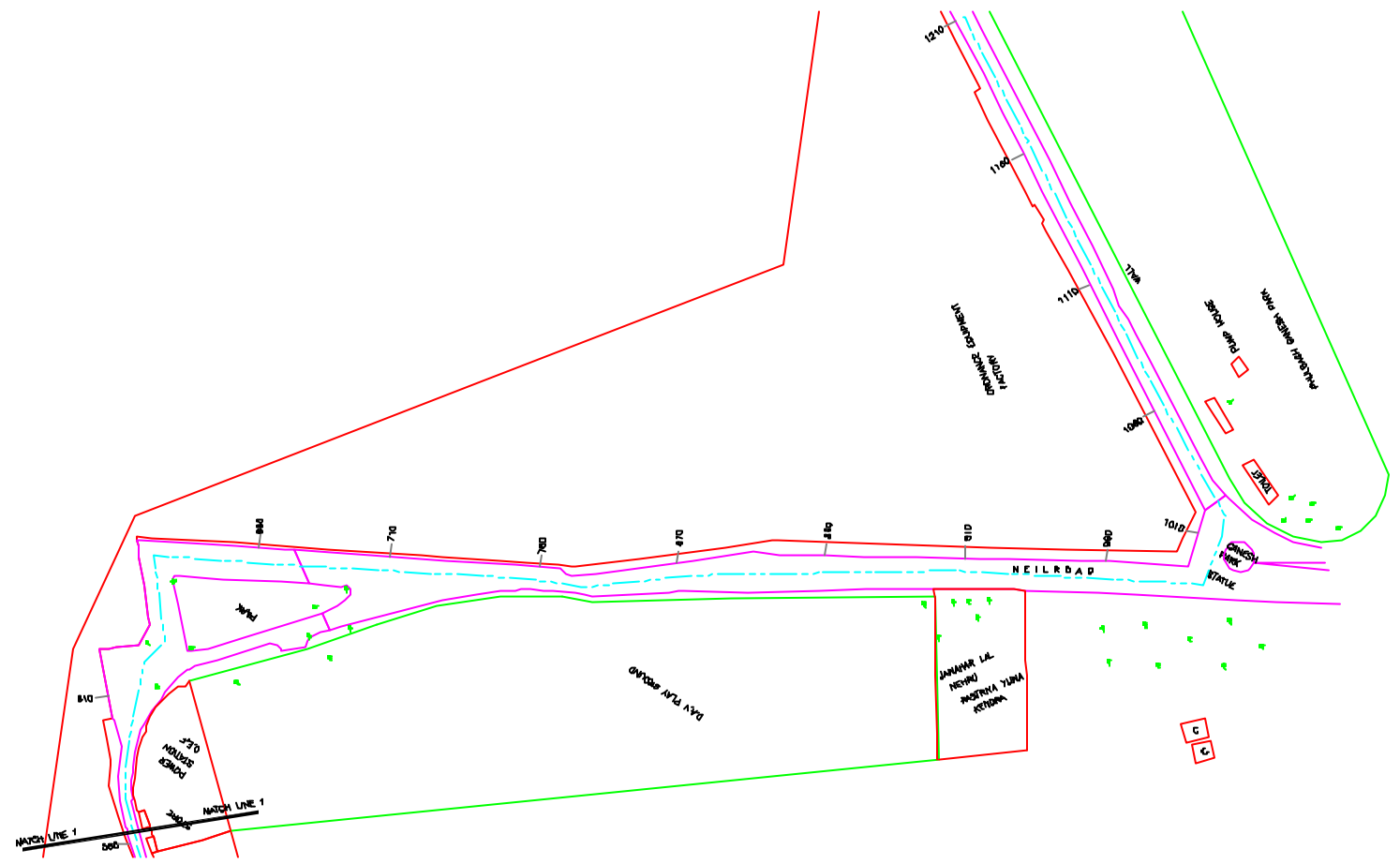


NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

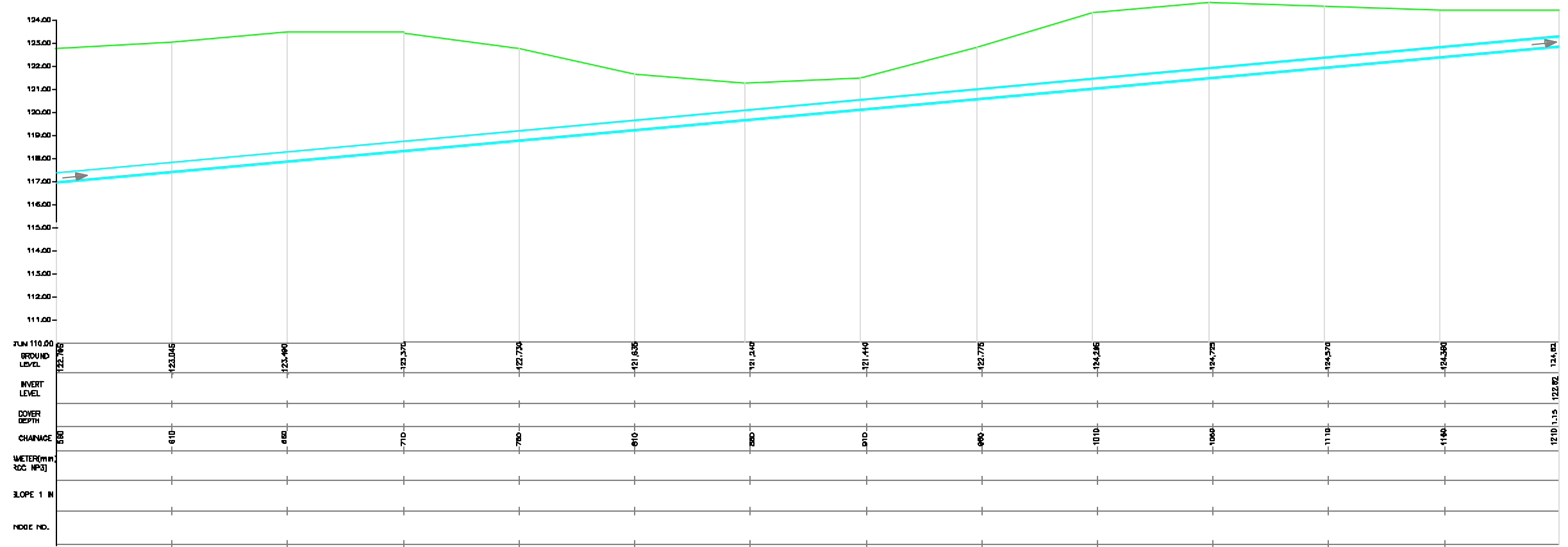
LEGEND

PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-PP-1



PLAN
 SCALE- 1 : 1000



L-SECTION
 SCALE- HOR. 1 : 1000, VER. 1 : 100

INST.					
ELCD.					
MECH.					
STRA.					
CIVL.					
REV. NO.	0	1	2	3	4

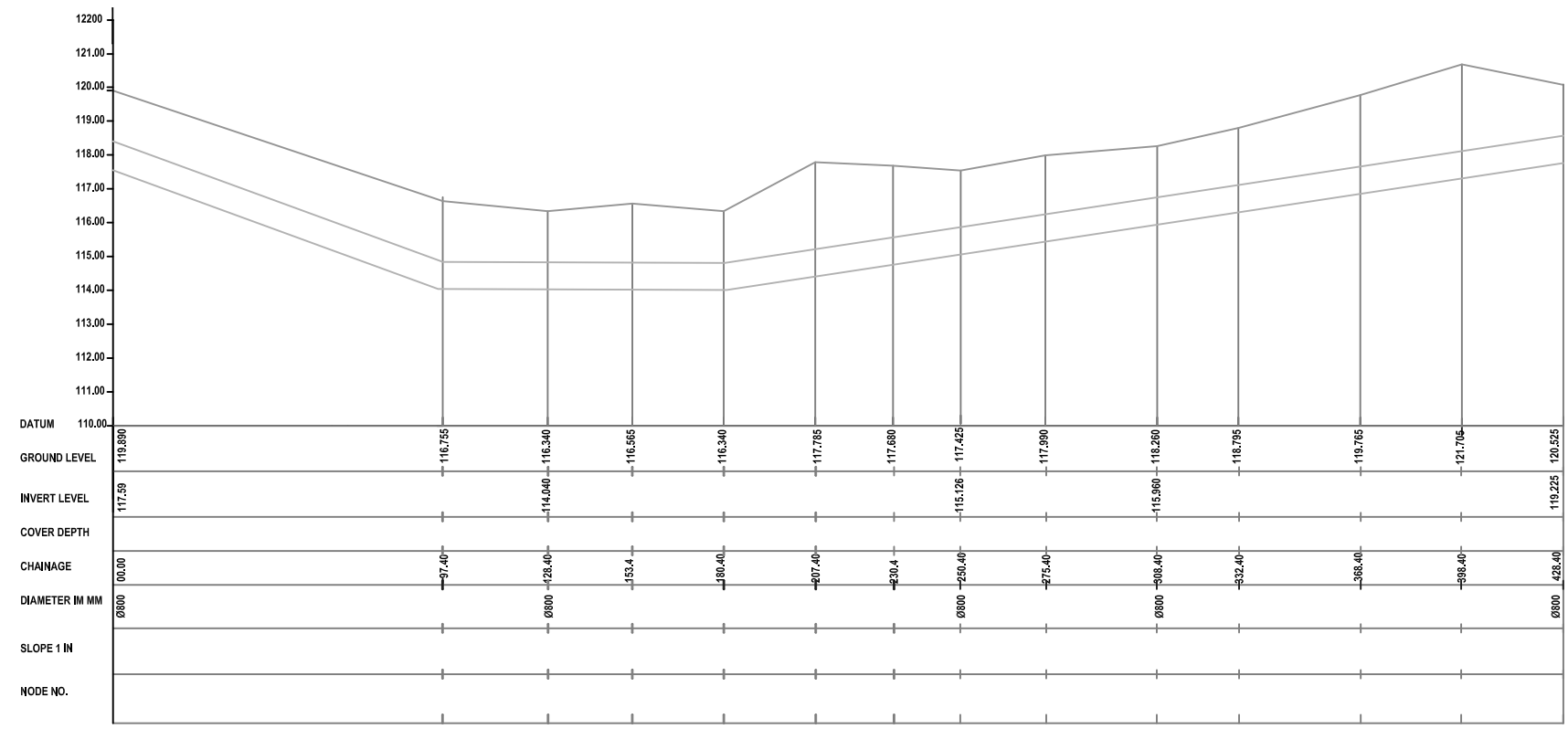
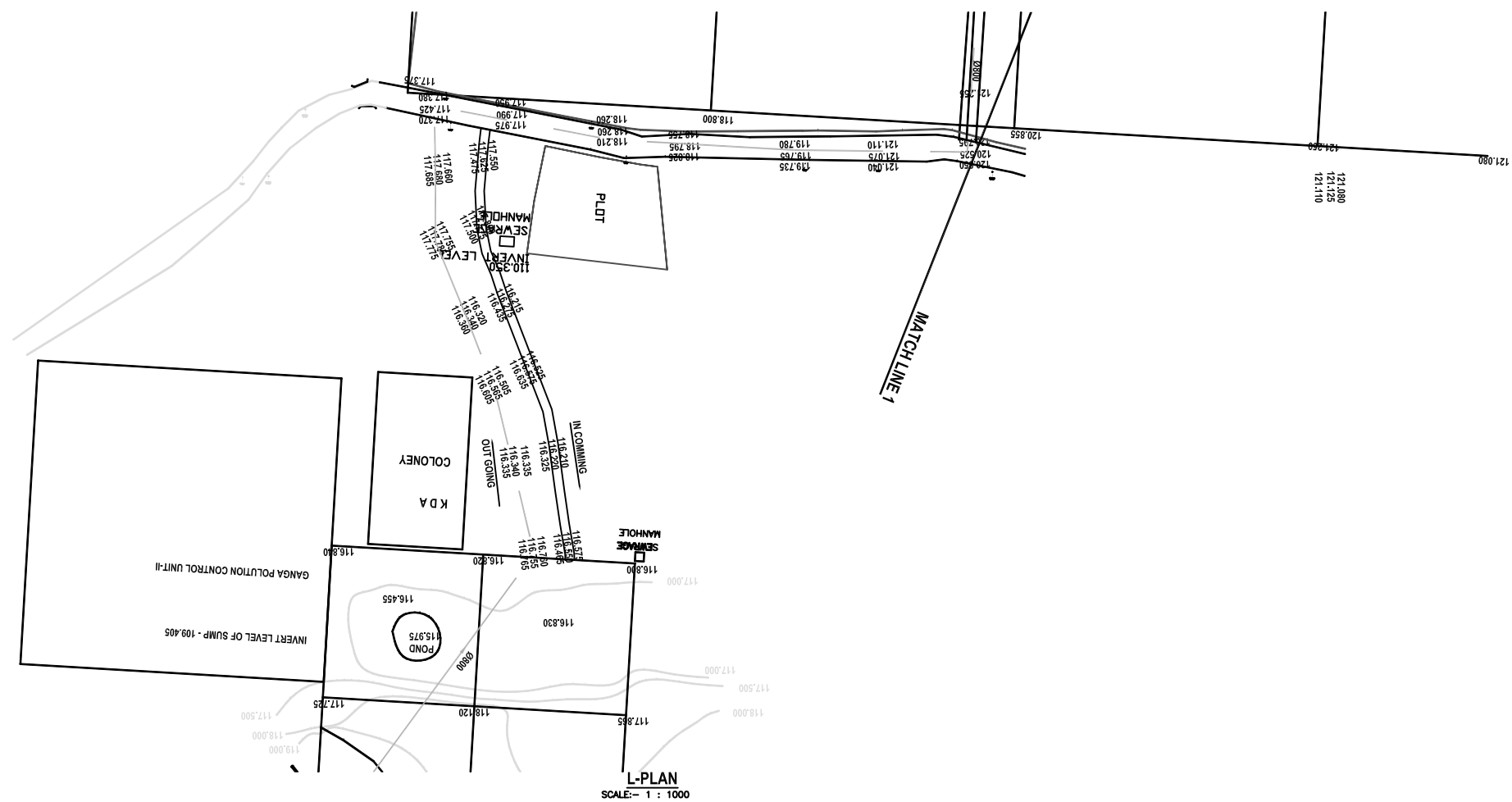
REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
CHECKED BY:	JONMAED KHAN		
APPROVED BY:	V.N.SCHTAKKE		
DRAWN	R.D.METRE	SCALE	AS SHOWN
DESIGNED		DATE	23-12-2004

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SURESH PRAKASH LIMITED

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

SHEET CONTENTS:
 PLAN & PROFILE OF RISING MAIN FROM PROPOSED BHAGWATDAS SPS TO EXISTING 660" TRUNK SEWER (SHEET 2/2)

DRAWING NO.	SR. NO.
KAN-PP-BD-2	97



L-SECTION
SCALE:- HOR. 1 : 1000, VER. 1 : 100

NOTE:
1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
2) ALL THE LEVELS ARE IN METERS.

LEGEND

PROPOSED SEWER LINE	
RISING MAIN	
ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
MOSQUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	

REFERENCE DRAWING :
1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
3) KEY PLAN KAN-KP-1

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

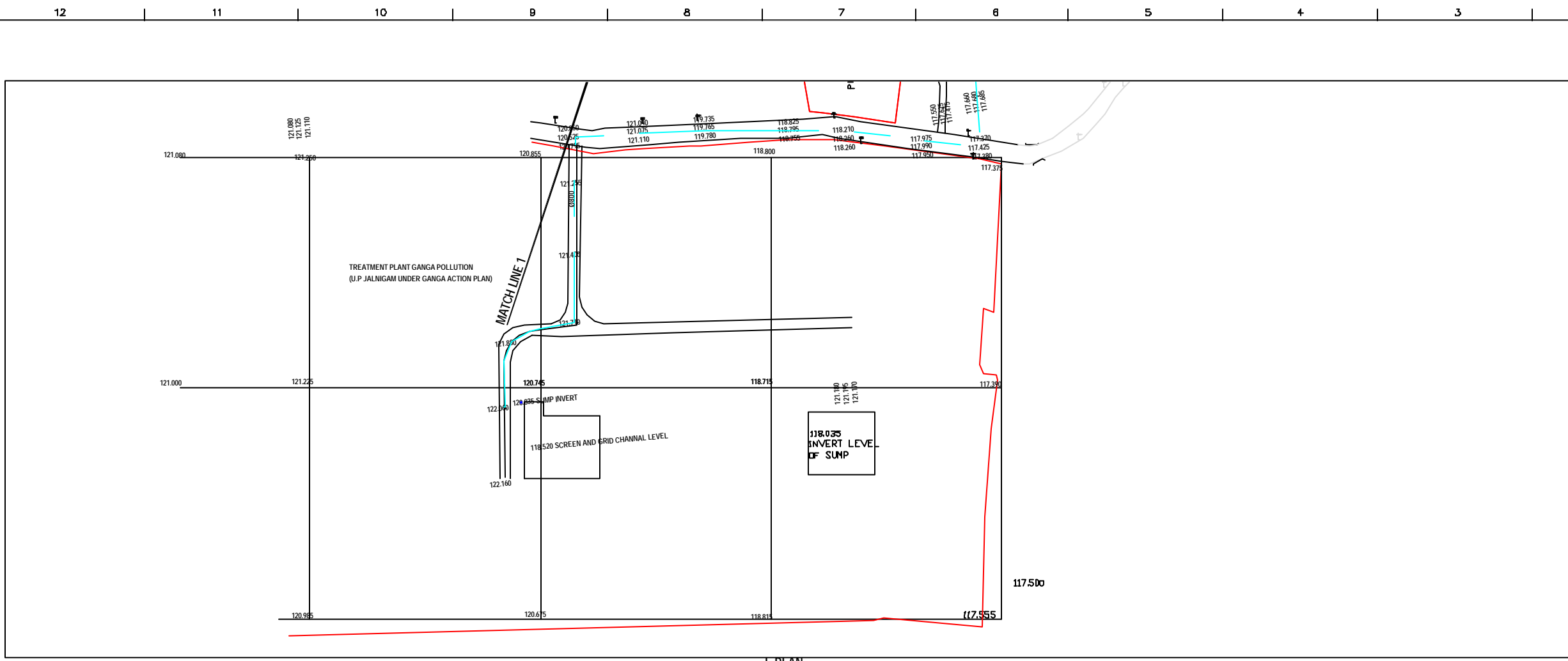
CHECKED BY: JUNAED KHAN
APPROVED BY: V.N.SONTAKKE
DRAWN: D.S.KURDEKAR
DESIGNED: P N PABREKAR
SURVEYED: KUMAR SURVEY
DATE: 17-01-2005

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS: TOKYO ENGINEERING CONSULTANTS CO., LTD.
CTI ENGINEERING INTERNATIONAL CO., LTD.
MWH INDIA PRIVATE LIMITED

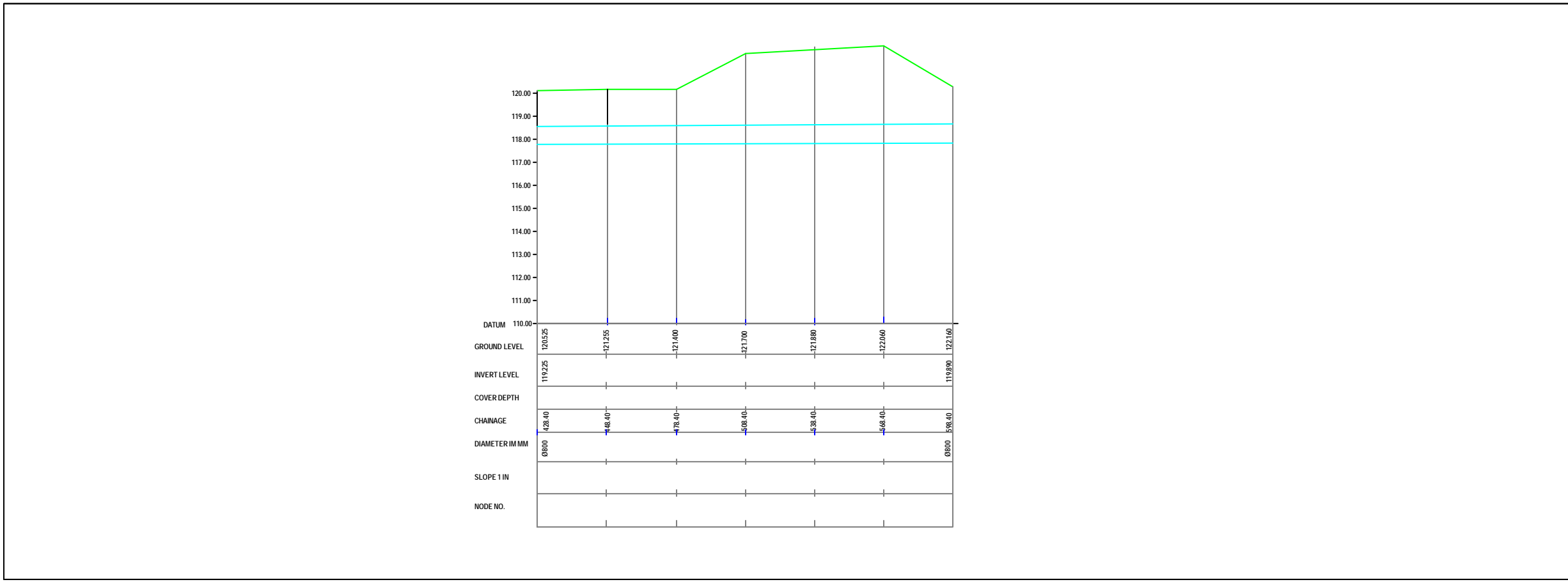
PROJECT: THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA
FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS: PLAN AND PROFILE OF RISING MAIN FROM COMBINED SEWAGE PUMPING STATION TO 36 MLD INDUSTRIAL WASTE WATER TREATMENT PLANT (SHEET 1/2)

DRAWING NO. KAN-PP-CT-1
SR. NO. 98



L-PLAN
SCALE= 1 : 1000



L-SECTION
SCALE= HOR. 1 : 1000, VER. 1 : 100



NOTE:
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.
 2) ALL THE LEVELS ARE IN METERS.

LEGEND

PROPOSED SEWER LINE	
RISING MAIN ROAD	
RAILWAY LINE	
BORE HOLE	
ELECTRICAL POLE	
PLOT BOUNDARY	
BUILDING	
TEMPLE	
BRIDGE / CULVERT	
ROAD DIVIDER	
WISDUE	
SPOT LEVEL	
NALLA	
TEMPORARY BENCH MARK	

REFERENCE DRAWING :
 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
 3) KEY PLAN KAN-KP-1

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
CHECKED BY: JUNAED KHAN			
APPROVED BY: V.N. SONTAKKE			
DRAWN	R.D. JHETRE	SCALE	AS SHOWN
DESIGNED	P. N. PABREKAR	DATE	19-11-2024

CONSULTANTS:

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

TOKYO ENGINEERING CONSULTANTS CO., LTD.

CTI ENGINEERING INTERNATIONAL CO., LTD.

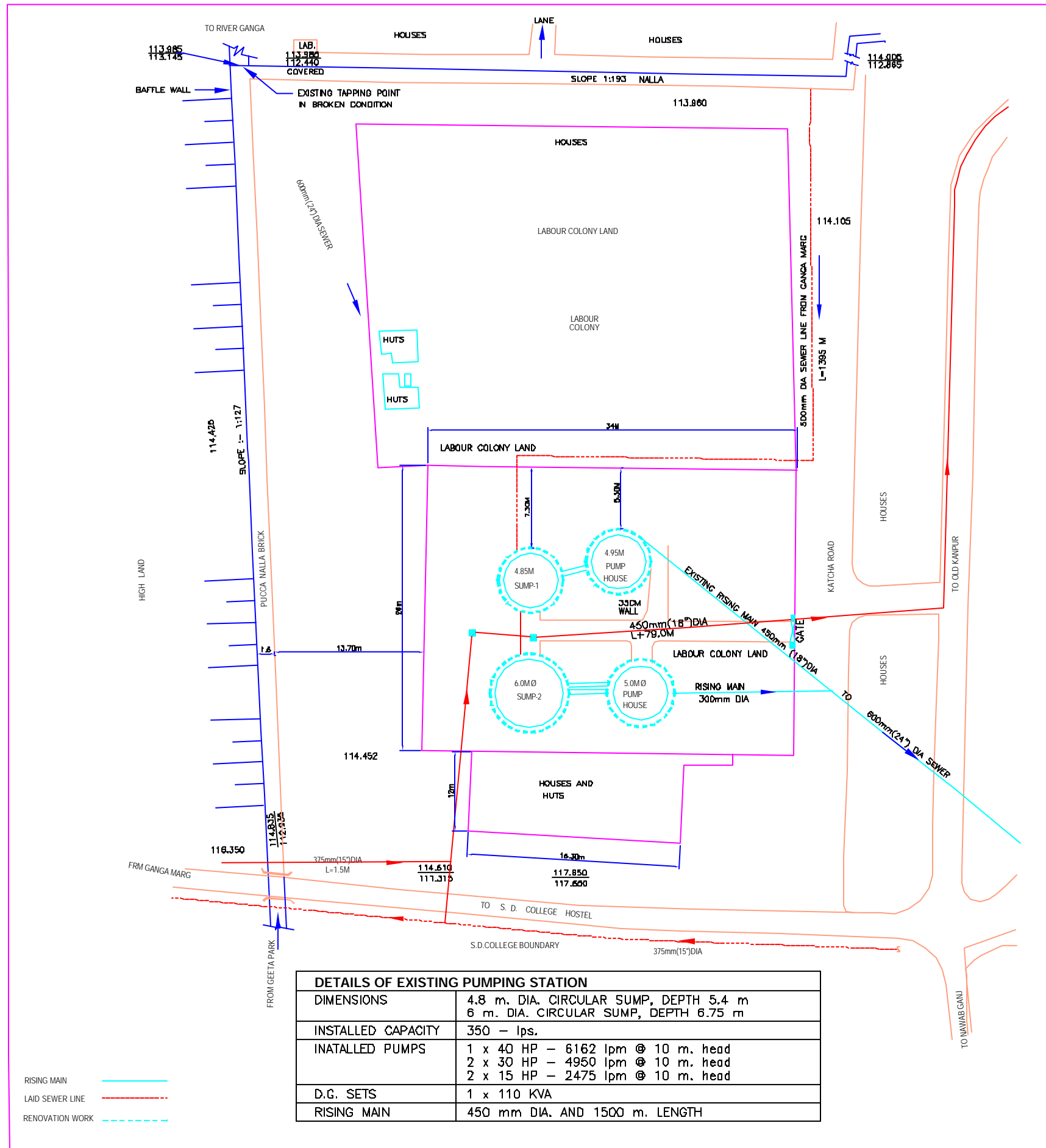
SHRI SHRI PRAKASH LIMITED

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

SHEET CONTENTS:
 PLAN AND PROFILE OF RISING MAIN FROM COMBINED SEWAGE PUMPING STATION TO 36 MLD INDUSTRIAL WASTE WATER TREATMENT PLANT (SHEET 2/2)



NOTE:



DETAILS OF EXISTING PUMPING STATION	
DIMENSIONS	4.8 m. DIA. CIRCULAR SUMP, DEPTH 5.4 m 6 m. DIA. CIRCULAR SUMP, DEPTH 6.75 m
INSTALLED CAPACITY	350 - lps.
INSTALLED PUMPS	1 x 40 HP - 6162 lpm @ 10 m. head 2 x 30 HP - 4950 lpm @ 10 m. head 2 x 15 HP - 2475 lpm @ 10 m. head
D.G. SETS	1 x 110 KVA
RISING MAIN	450 mm DIA. AND 1500 m. LENGTH

RISING MAIN
LAID SEWER LINE
RENOVATION WORK

SITE PLAN
SCALE: 1 CM = 2 M

INST.					
ELEC.					
MECH.					
STRV.					
CIVL.					
REV. NO.	0	1	2	3	4

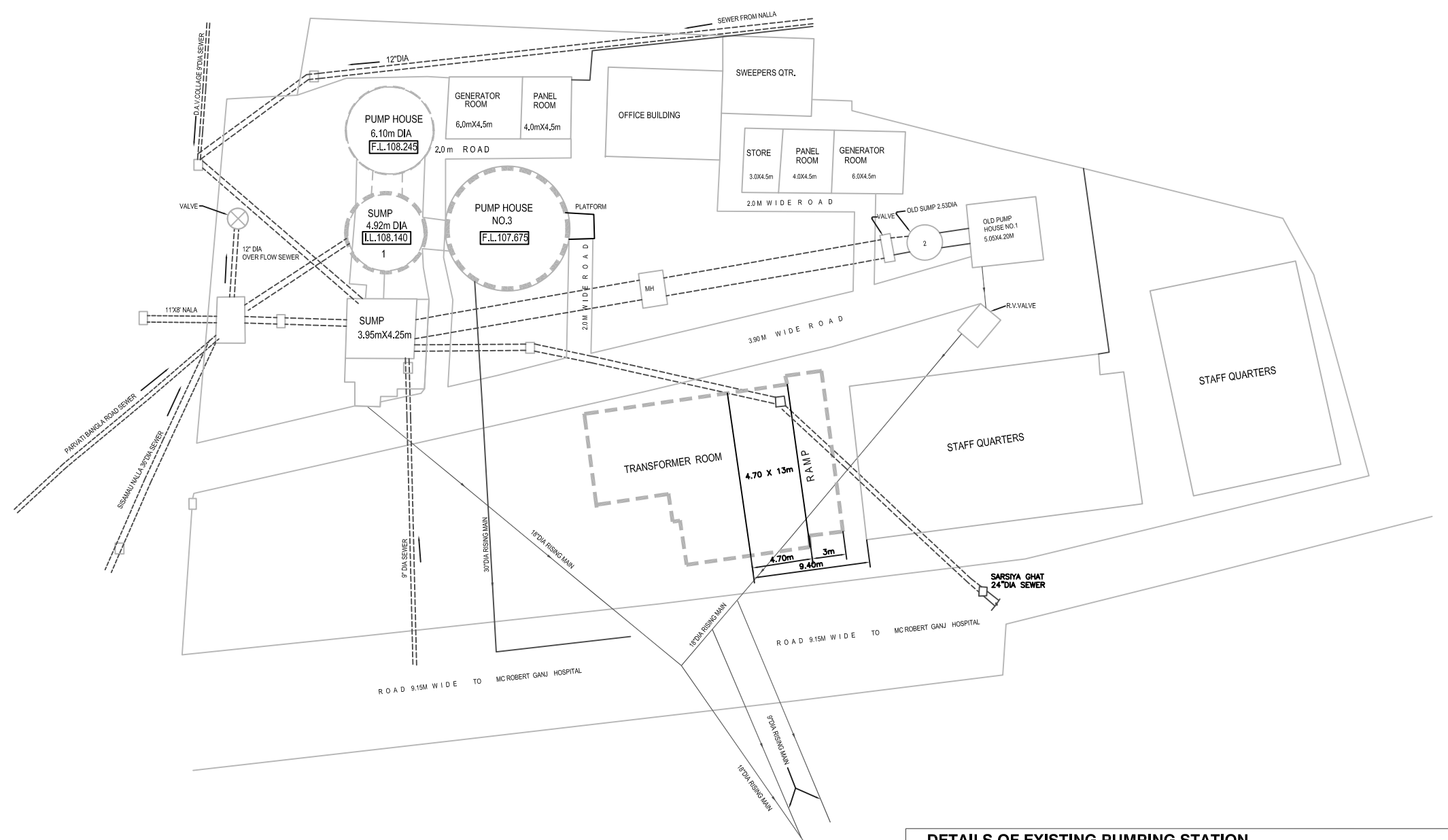
REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
CHECKED BY:	APPROVED BY:		
DRAWN	D.B. KURODKAR	V.N. SONTAKKE	
DESIGNED		SCALE	AS SHOWN
SURVEYED	KUMAR SURVEY	DATE	28-12-2004

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.
 SURESH INFRA PROJECTS LIMITED

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

SHEET CONTENTS:
 LAYOUT OF REHABILITATION OF NAWABGANJ PUMP AND TREATMENT PLANT (SHEET 1/1)

DRAWING NO.	SR. NO.
KAN-PS-NAWAB-1	100



RISING MAIN ———→
 LAID SEWER LINE - - - - -
 RENOVATION WORK - - - - -

SITE PLAN
SCALE: 1:200

DETAILS OF EXISTING PUMPING STATION	
DIMENSIONS	4.8 m. DIA. CIRCULAR SUMP, DEPTH 10.65 m 4.8 m. DIA. CIRCULAR SUMP, DEPTH 6.15 m
INSTALLED CAPACITY	1884 - lps.
INSTALLED PUMPS	3 x 125 HP - 22000 lpm @ 10 m. head 2 x 100 HP - 15000 lpm @ 10 m. head 2 x 50 HP - 8500 lpm @ 10 m. head
D.G. SETS	1 x 210 KVA AND 1 x 250 KVA
RISING MAIN	600 mm DIA. & 250 mm DIA., 1500 m. LENGTH EACH



NOTE:

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:	JONAEED KHAN	APPROVED BY:	V.N.SONTAKKE
DRAWN	D.S.KURDEKAR	SCALE	AS SHOWN
DESIGNED		DATE	05-01-2004
SURVEYED	KUMAR SURVEY		

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

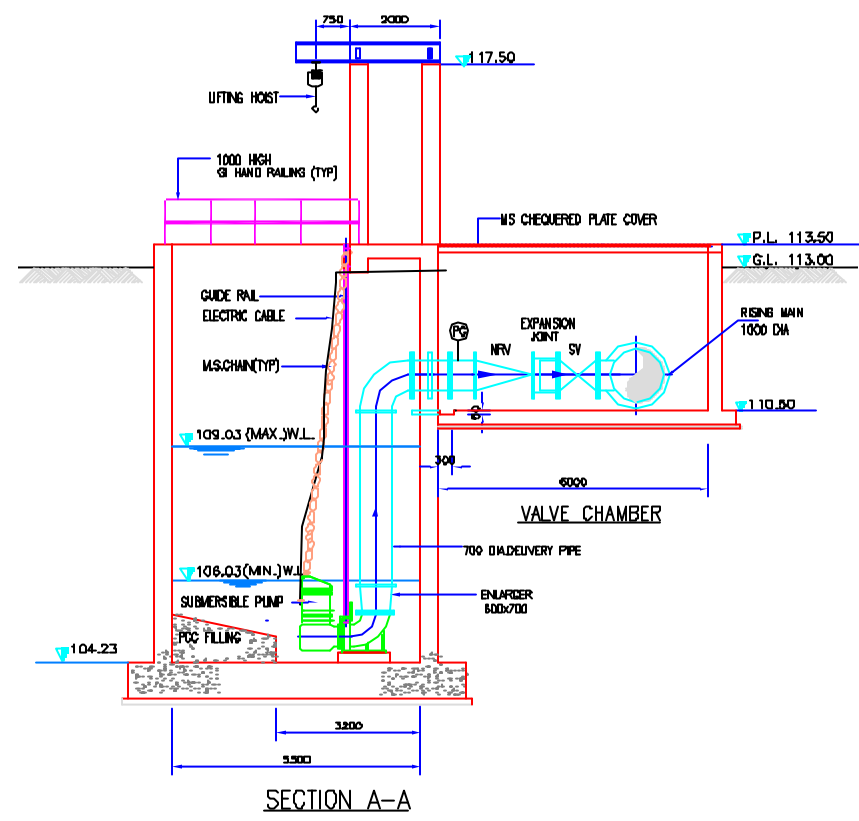
PROJECT:
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA
 FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS:
 LAYOUT OF REHABILITATION OF PARMAT PUMPING STATION

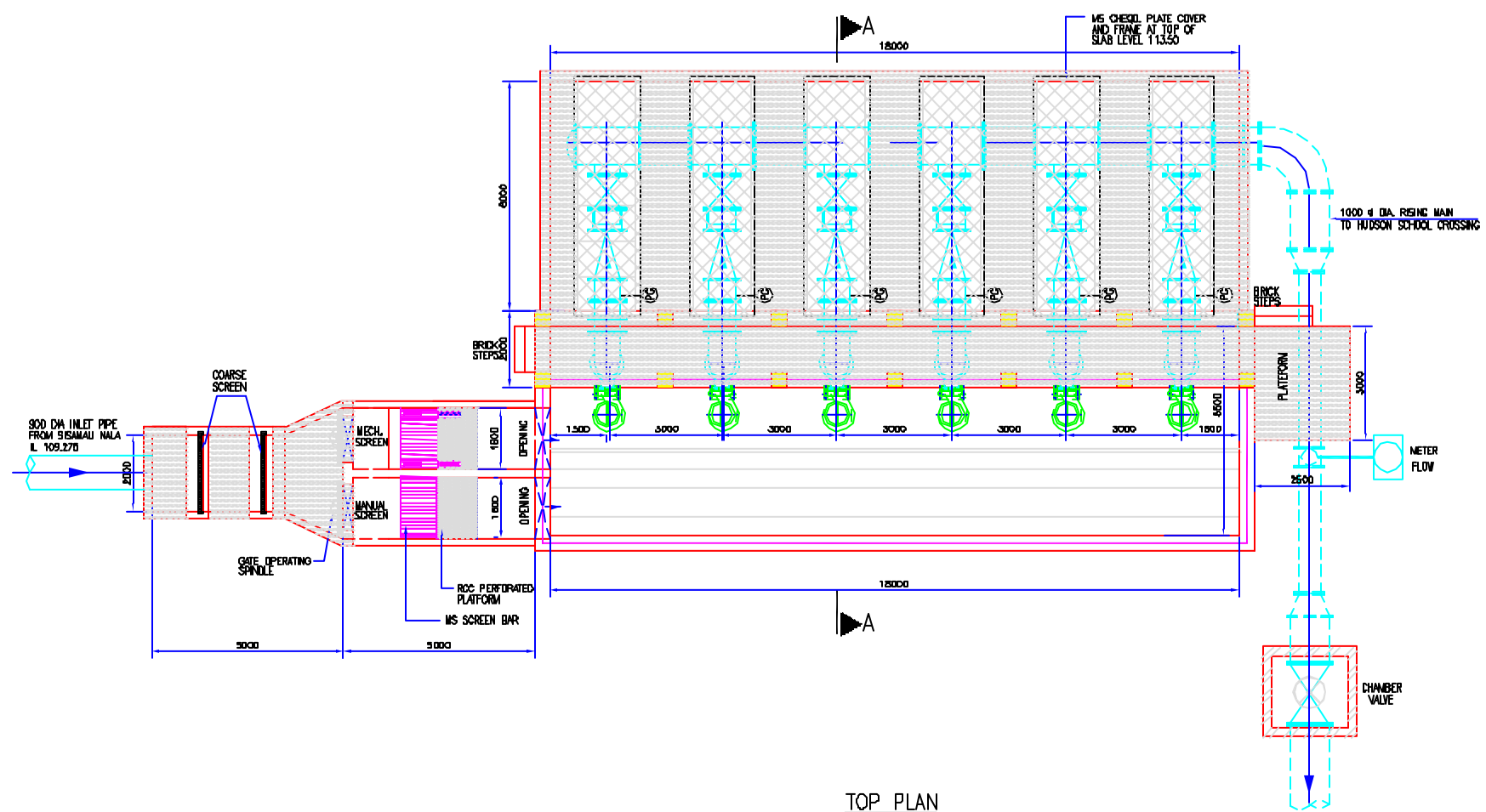
DRAWING NO. KAN-PS-PARMAT-1
 SR. NO. 101



NOTES:
 1) ALL LEVELS ARE IN METER.
 2) ALL DIMENSIONS ARE IN MM.
 3) PLEASE DO NOT SCALE THE DRAWING ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.



SECTION A-A



TOP PLAN

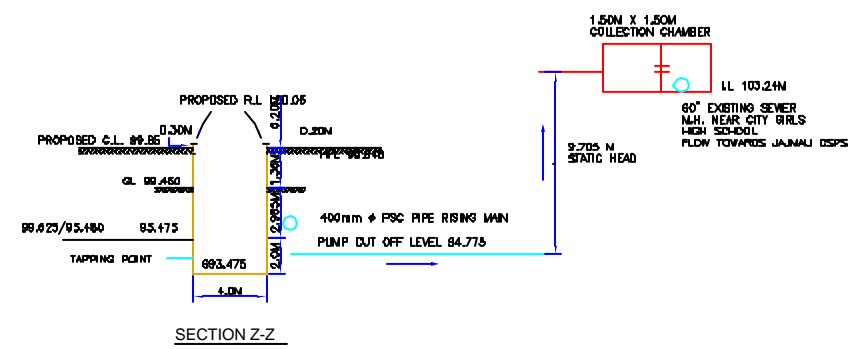
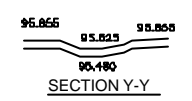
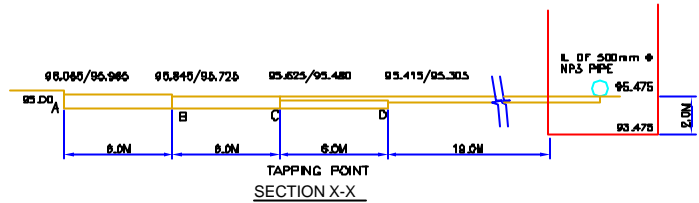
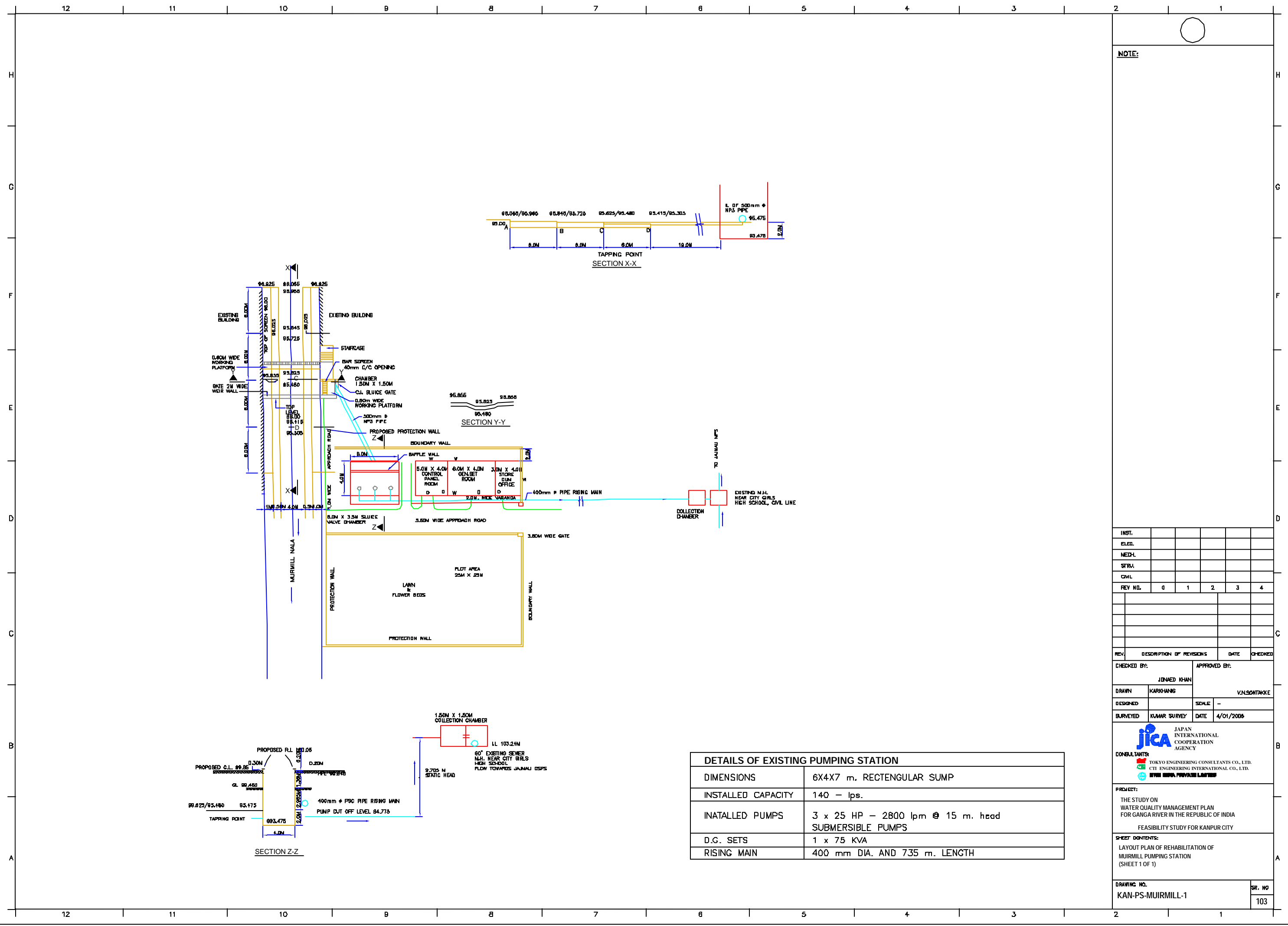
INST.					
FILED.					
MECH.					
STRU.					
CIVIL					
REV. NO.	0	1	2	3	4
REV.	DESCRIPTION OF REVISIONS		DATE	CHECKED	

CHECKED BY:	APPROVED BY:	
	JUNAED KHAN	
DRAWN	C. K. DAVKAR	V. N. SONTAKKE
DESIGNED	P. N. PAREKHAR	SCALE: 1:50
SURVEYED		DATE: 15-01-2006

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 CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SIVASUBRAMANIAM ENGINEERING

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

SHEET CONTENTS:
 GENERAL ARRANGEMENT OF ADDITIONAL PUMPING STATION AT PARMAT (SHEET 2/2)



DETAILS OF EXISTING PUMPING STATION	
DIMENSIONS	6X4X7 m. RECTANGULAR SUMP
INSTALLED CAPACITY	140 - lps.
INSTALLED PUMPS	3 x 25 HP - 2800 lpm @ 15 m. head SUBMERSIBLE PUMPS
D.C. SETS	1 x 75 KVA
RISING MAIN	400 mm DIA. AND 735 m. LENGTH

NOTE:

INST.					
ELEC.					
Mech.					
STR.					
CIVIL					
REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:	APPROVED BY:
JONMED KHAN	V.N.SCHTAKKE
DRAWN:	KARSHANS
DESIGNED:	SCALE: -
BURVEYED:	KUMAR SURVEY DATE: 4/01/2006

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CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SIVAS ENGINEERING PRIVATE LIMITED

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

SHEET CONTENTS:
 LAYOUT PLAN OF REHABILITATION OF MUIRMILL PUMPING STATION (SHEET 1 OF 1)

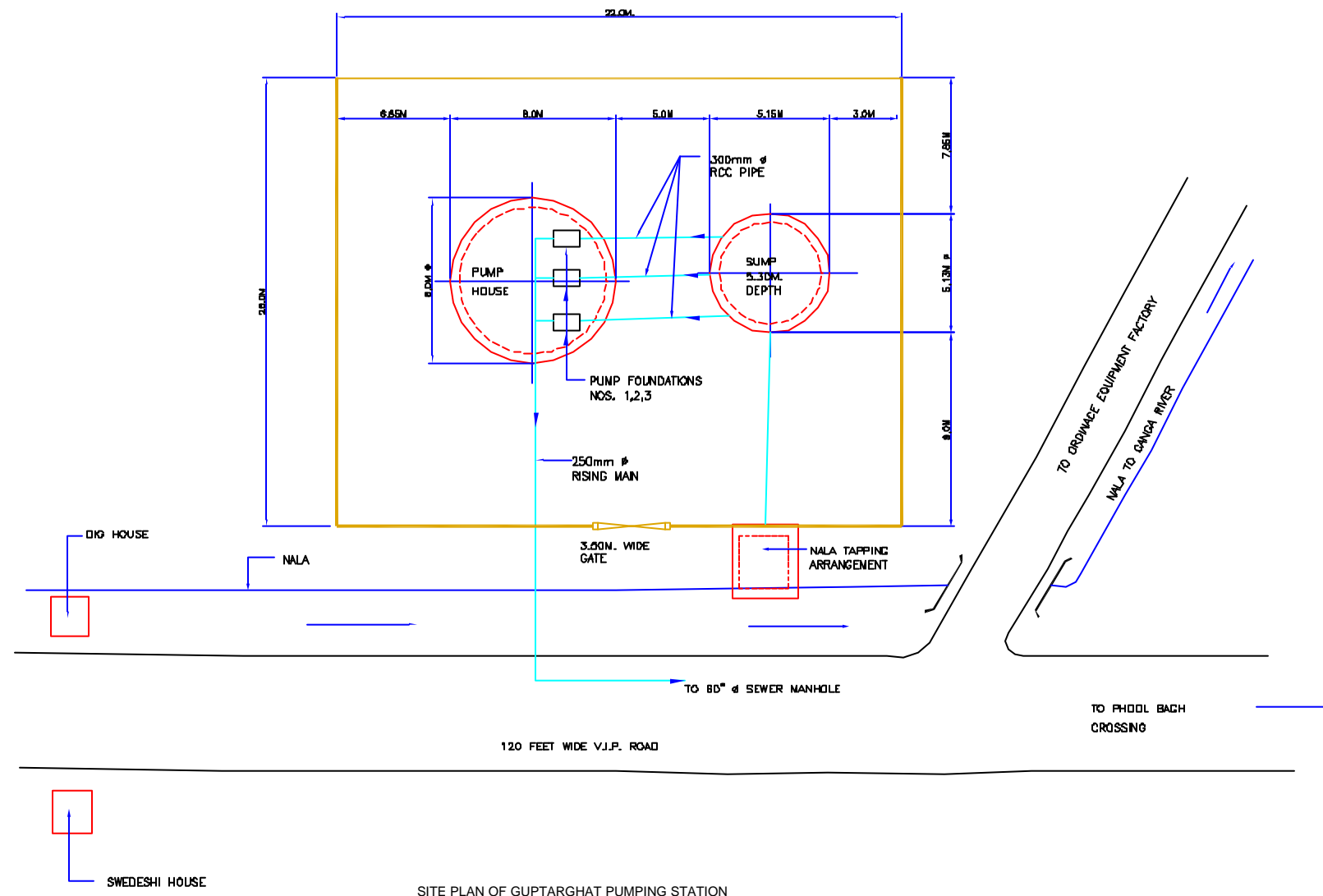
DRAWING NO.	SR. NO.
KAN-PS-MUIRMILL-1	103



NOTE:

LEGEND

--- RENOVATION WORK



SITE PLAN OF GUPTARGHAT PUMPING STATION

DETAILS OF EXISTING PUMPING STATION	
DIMENSIONS	5.0 m. DIA. CIRCULAR SUMP, DEPTH 7.0 m
INSTALLED CAPACITY	187 - lps.
INSTALLED PUMPS	3 x 15 HP - 1000 lpm @ 15 m. head
D.G. SETS	1 x 50 KVA
RISING MAIN	150 mm DIA. AND 300 m. LENGTH

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:		APPROVED BY:	
JONMAD KHAN		V.N. SONTAKKE	
DRAWN	KARKHANS	SCALE	-
DESIGNED		DATE	30-1-2005

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS:

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 CTE ENGINEERING INTERNATIONAL CO., LTD.
 SIVAS ENGINEERING PRIVATE LIMITED

PROJECT:

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

FEASIBILITY STUDY FOR KANPUR CITY

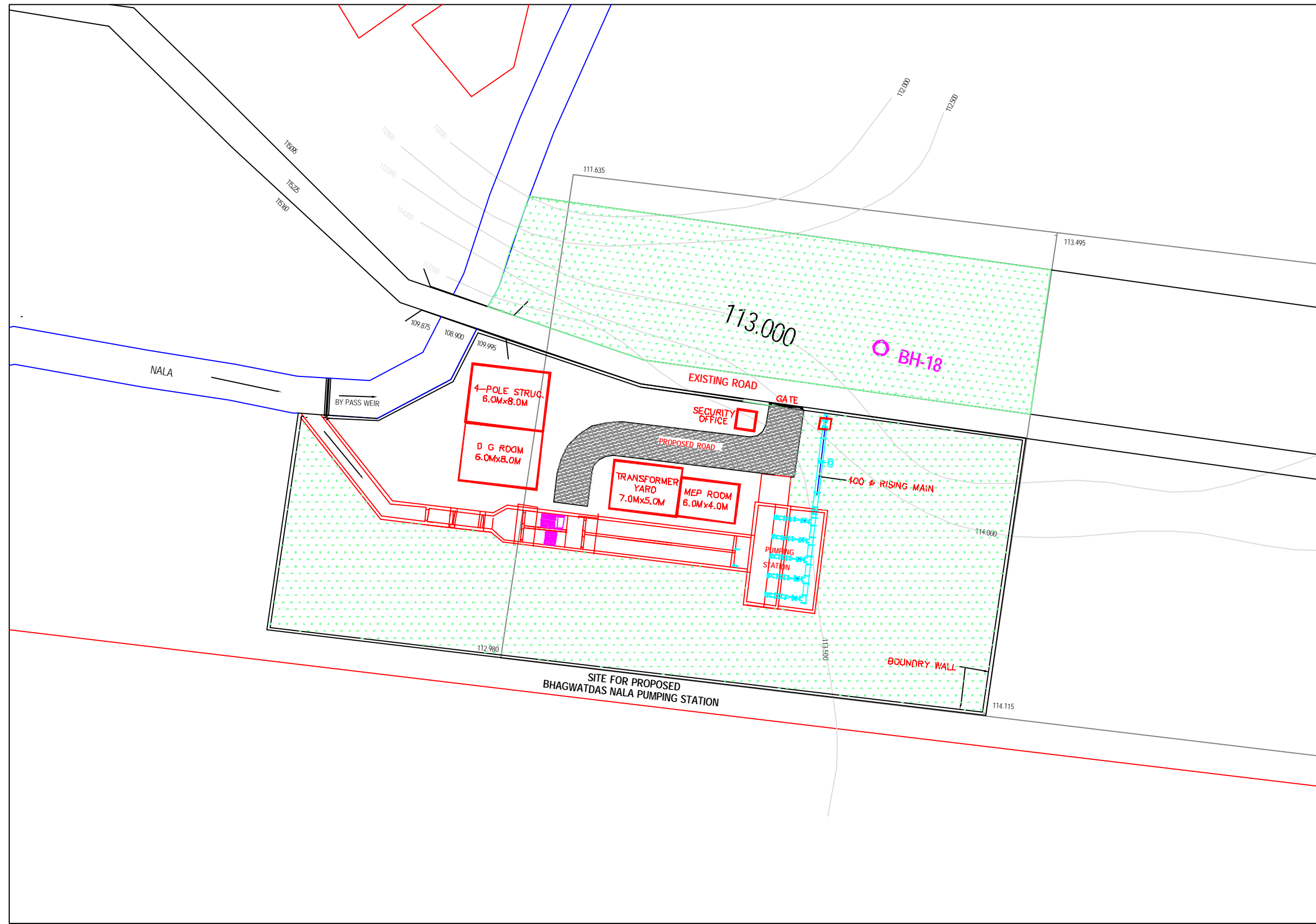
SHEET CONTENTS:

LAYOUT PLAN OF REHABILITATION OF GUPTARGHAT PUMPING STATION (SHEET 1 OF 1)

DRAWING NO.	SR. NO.
KAN-PS-GUPTAR-1	104



NOTES:
 1) ALL LEVELS ARE IN METER.
 2) ALL DIMENSIONS ARE IN MM.
 3) PLEASE DO NOT SCALE THE DRAWING ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.



LEGEND:-
 GREENBELT

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

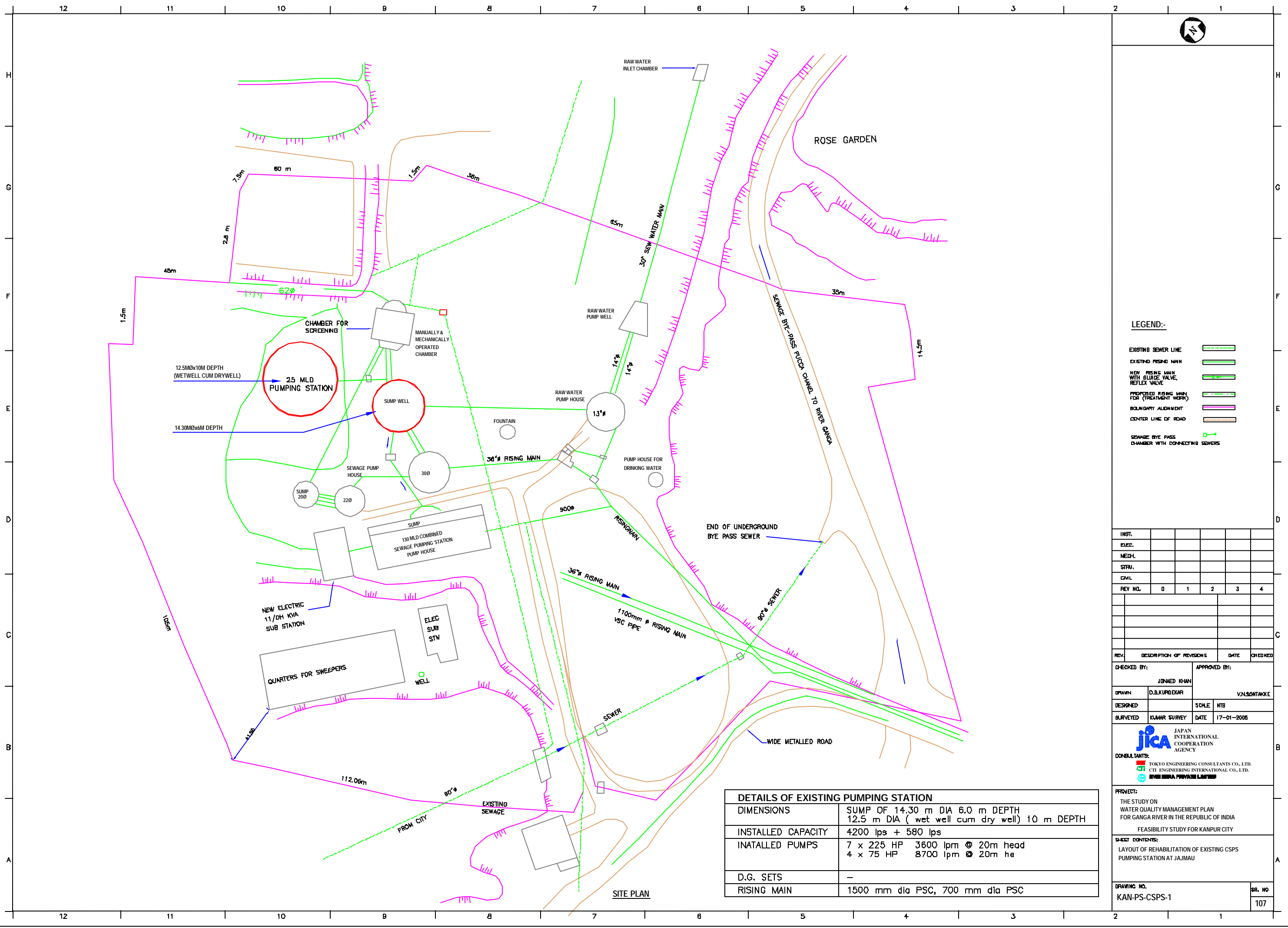
CHECKED BY:		APPROVED BY:	
SAURASH NISRA		VN SONTAKKE	
DRAWN	G.K. DAVKAR	SCALE	1 : 200
DESIGNED	P. N. PABREKAR	DATE	27-12-2004
SURVEYED			

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 CONSULTANTS:

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

SHEET CONTENTS:
 LAYOUT OF BHAGWATDAS PUMPING STATION (SHEET 1/2)

DRAWING NO.	SR. NO.
KAN-PS-BD-1	105



LEGEND:-

EXISTING SEWER LINE	
EXISTING RISING MAIN	
NEW RISING MAIN WITH SLUDGE VALVE, REFLEX VALVE	
PROPOSED RISING MAIN FOR TREATMENT WORKS	
BOUNDARY ALIGNMENT	
CENTER LINE OF ROAD	
SEWER BYE PASS CHAMBER WITH CONNECTING SEWERS	

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
CHECKED BY:	JUNAED KHAN		
APPROVED BY:	V.N.SCHTAKKE		
DRAWN	D.B.KURODKAR	SCALE	NTS
DESIGNED		DATE	17-01-2006

CONSULTANTS:

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TOKYO ENGINEERING CONSULTANTS CO., LTD.

CTI ENGINEERING INTERNATIONAL CO., LTD.

SHRI SHRI PRAVAH LIMITED

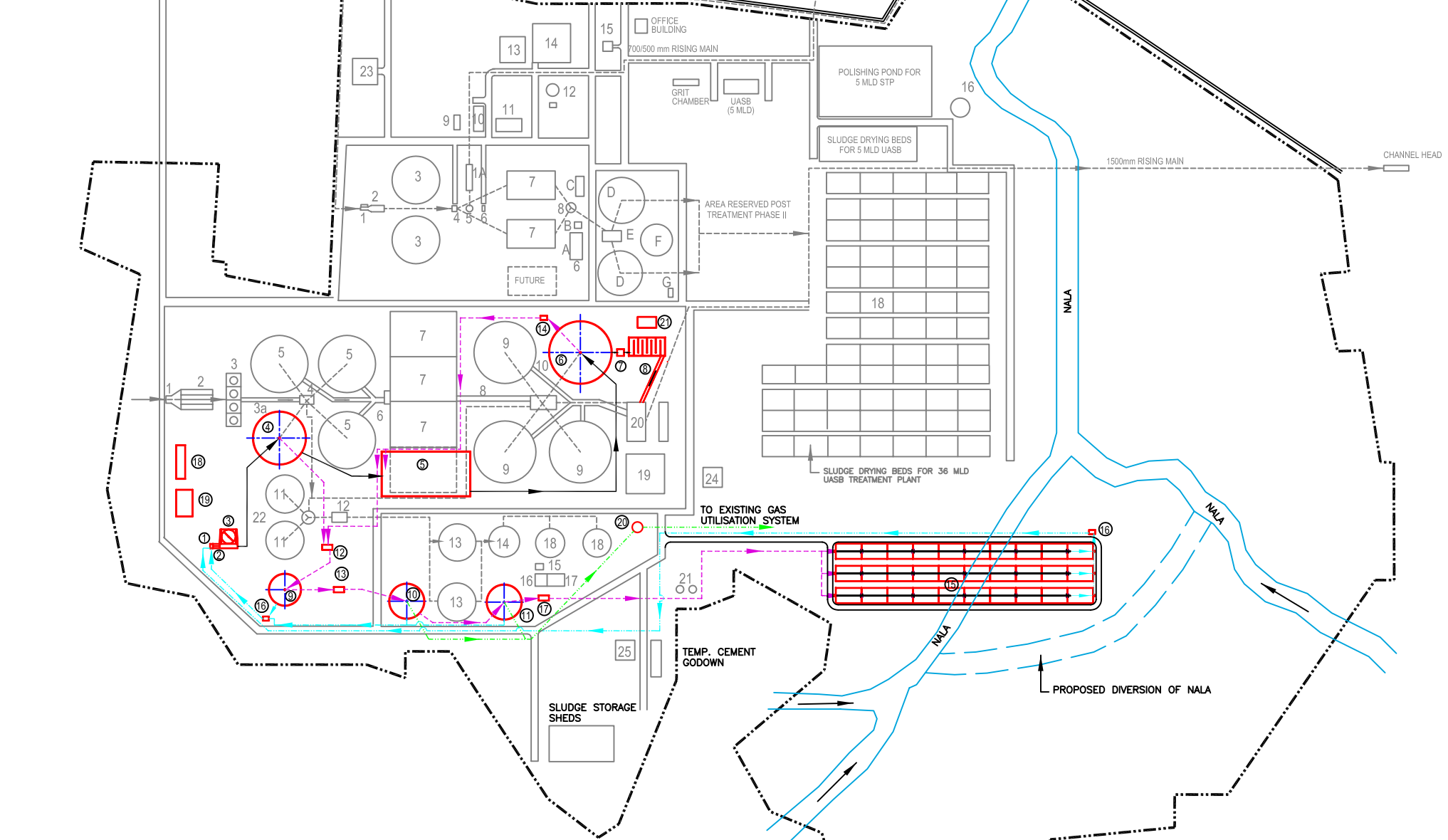
PROJECT:
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA
 FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS:
 LAYOUT OF REHABILITATION OF EXISTING CSPS PUMPING STATION AT JAJMAU

DETAILS OF EXISTING PUMPING STATION

DIMENSIONS	SUMP OF 14.30 m DIA 6.0 m DEPTH 12.5 m DIA (wet well cum dry well) 10 m DEPTH
INSTALLED CAPACITY	4200 lps + 580 lps
INATALLED PUMPS	7 x 225 HP 3800 lpm @ 20m head 4 x 75 HP 8700 lpm @ 20m he
D.G. SETS	-
RISING MAIN	1500 mm dia PSC, 700 mm dia PSC

700 Ø RISING MAIN FROM TANNERY AREA (INDUSTRIAL)



**LAYOUT PLAN FOR
STP AT JAJMAU
(CAPACITY- 43.30 MLD)**

**LEGEND
(EXISTING 130 MLD STP)**

- 1 COLLECTION CHAMBER
- 2 SCREEN CHAMBER
- 3 GRIT CHAMBER
- 3a PARSHALL FLUME
- 4 DISTRIBUTION CHAMBER FOR P.S.T.
- 5 PRIMARY SEDIMENTATION TANK
- 6 DIST. CHAMBER AERATION TANK
- 7 AERATION TANK
- 8 DIST. CHAMBER
- 9 FINAL SEDIMENTATION TANK
- 10 RETURN SLUDGE PUMP STATION
- 11 GRAVITY SLUDGE THICKENERS
- 12 THICKENED SLUDGE PUMP STATION
- 13 PRIMARY DIGESTER
- 14 SECONDARY DIGESTER
- 15 DIGESTED SLUDGE PUMP STATION
- 16 MECHANICAL/FILTRATE/DEWATERING SYSTEM
- 17 CENTRATE/FILTRATE/SUPERNATANT PUMPING STATION
- 18 GAS HOLDER
- 19 POWER HOUSE
- 19a COOLING TOWERS
- 20 TREATED EFFLUENT PUMP STATION
- 21 GAS BURNER
- 21a MAIN CONTROL PANEL ROOM
- 22 BLENDING TANK
- 23 ADMINISTRATIVE BLOCK CUM PLANT CONTROL LAB
- 24 POWER SUB STATION
- 25 CONTROL ROOM PANEL FOR DIGESTER ETC.

**LEGEND
(EXISTING 36 MLD STP)**

- 1 SCREEN CHAMBER(TANNERY W.W.)
- 2 GRIT CHAMBER(TANNERY W.W.)
- 1A GRIT CHAMBER(DOMESTIC W.W.)
- 2A GRIT CHAMBER(DOMESTIC W.W.)
- 3 EQUALISATION TANK
- 4 INT. PUMPING STATION
- 5 MIXING TANK
- 6 MAIN PUMPING STATION
- 7 U A S B
- 8 COLLECTION WELL
- 9 FLOW CONTROL BOX
- 10 MAIN ELECTRICAL PANEL ROOM
- 11 ENGINE ROOM
- 12 GAS HOLDER
- 13 11 X 0.44 KV SUB STATIONS 2NOS.
- 14 33 X 11 KV SUB STATION
- 15 WORK SHOP
- 16 FLARE
- 17 25.0 MLD RAW SEWAGE PUMPING STATION
- 18 42 NOS. SLUDGE DRYING BEDS
- 19 FILTRATE PUMP STATION

**LEGEND
(PROPOSED 43.30 MLD STP)**

SR.NO.	UNITS	NO.	LENGTH/DIA.	WIDTH	DEPTH	FREE BOARD	SR.NO.	UNITS	NO.	LENGTH/DIA.	WIDTH	DEPTH	FREE BOARD
1	INLET CHAMBER	1	1.90	3.20	5.00	0.50	11	SECONDARY SLUDGE DIGESTER	1	26.10ø	-	5.00	0.50
2	SCREEN CHANNEL	2	5.00	1.50	1.00	0.50	12	THICKENER FEED PUMP HOUSE	1	7.60	3.80	-	5.50 (TOTAL DEPTH)
3	GRIT CHAMBER	1	10.80	10.80	0.70	0.60	13	PRIMARY DIGESTER FEED PUMP HOUSE	1	7.60	3.80	-	5.50 (TOTAL DEPTH)
4	PRIMARY CLARIFIER	1	39.70 ø	-	3.0	0.50	14	SECONDARY SLUDGE PUMP HOUSE	1	5.00	3.00	-	3.50 (TOTAL DEPTH)
5	AERATION TANK	1	66.80	33.40	3.50	0.50	15	SLUDGE DRYING BEDS (SDB)	30	19.30	11.40	-	-
6	SECONDARY CLARIFIER	1	47.00 ø	-	3.20	0.50	16	FILTRATE PUMP HOUSE	2	4.50	3.0	-	-
7	CHLORINE MIXING TANK	1	5.00	5.00	2.50	0.50	17	SDB FEED PUMP HOUSE	1	7.60	3.80	-	5.50 (TOTAL DEPTH)
8	CHLORINE CONTACT TANK	1	26.87	13.44	2.50	0.50	18	MEP ROOM	1	25.00	6.50	-	-
9	SLUDGE THICKENER	1	23.80 ø	-	3.50	0.60	19	TRANSFORMER YARD	1	20.00	12.00	-	-
10	PRIMARY SLUDGE DIGESTER	1	26.10ø	-	5.00	0.50	20	GAS HOLDER	1	8.0ø	-	5.10 TD	-
							21	CHLORINE HOUSE	1	14.00	8.00	-	-

ALL UNIT SIZES ARE IN METER



NOTE:

REFERENCE DRAWING :

- 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
- 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
- 3) KEY PLAN KAN-KP-1
- 4) CATCHMENT AREA FOR DISTRICT-1 KAN-CA-D1-1

LEGEND

- WASTEWATER LINE
- GAS LINE
- SLUDGE LINE
- FILTRATE LINE

INST.	ELEC.	MECH.	STRU.	CIVIL

REV. NO.	0	1	2	3	4

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY:	SAURABH MISRA	APPROVED BY:	V.N.SONTAKKE
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DRAWN	KARKHANIS	SCALE	1:2000
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DESIGNED	SAURABH MISRA	DATE	27-12-04
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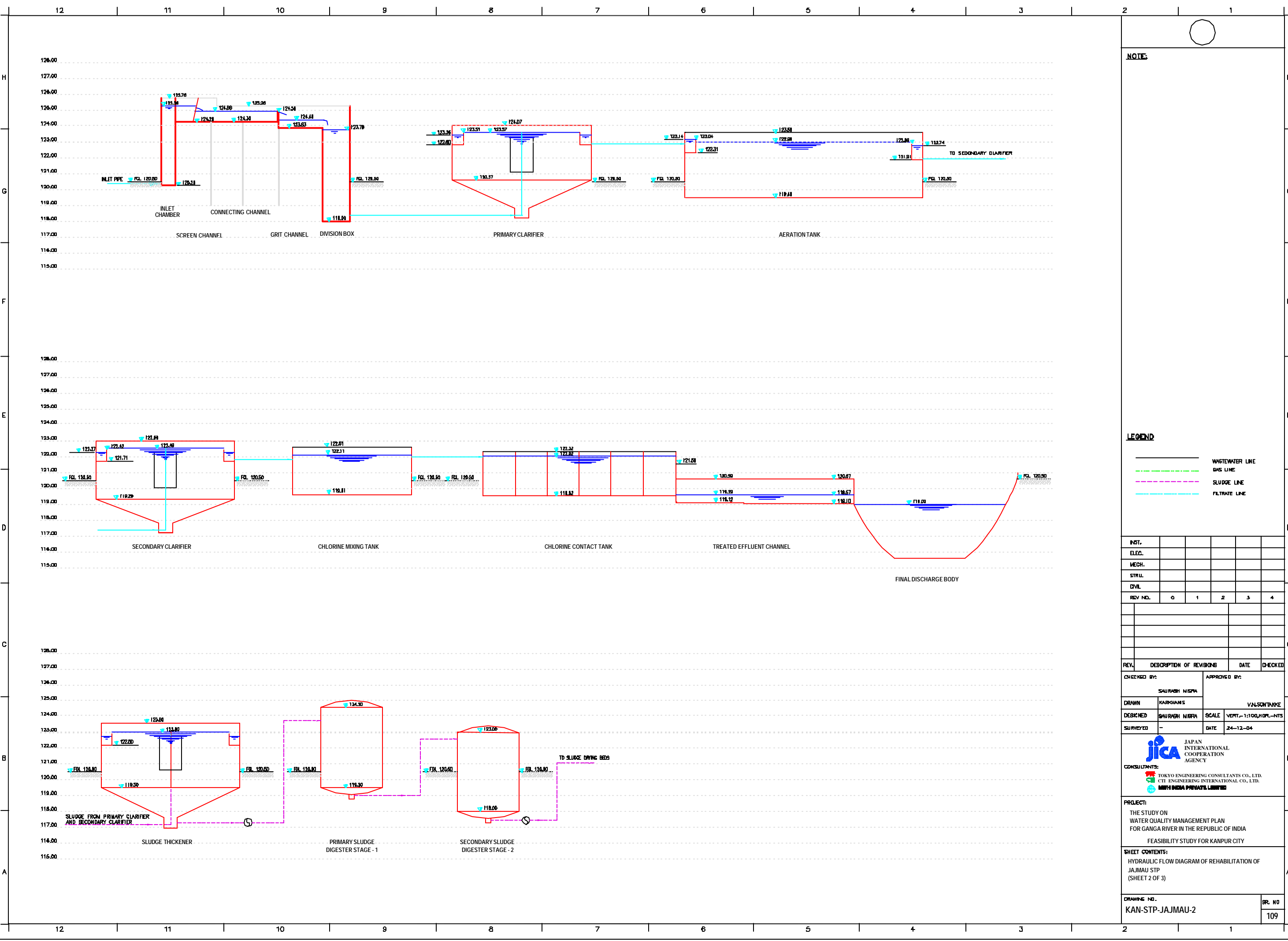
SURVEYED	KUMAR SURVEY		
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JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 CONSULTANTS: TOKYO ENGINEERING CONSULTANTS CO., LTD.
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.
 MWH INDIA PRIVATE LIMITED

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

SHEET CONTENTS:
 LAYOUT PLAN OF REHABILITATION OF JAJMAU STP (SHEET 1/3)

DRAWING NO.	SR. NO
KAN-STP-JAJMAU-1	108



NOTE:

LEGEND

- WASTEWATER LINE
- - - GAS LINE
- - - SLUDGE LINE
- - - FILTRATE LINE

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED
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CHECKED BY:	SAURABH NERVA	APPROVED BY:	VALSANTHAKR
DRAWN:	KARSHAN S	SCALE:	VERT. - 1:100; HORIZ. - NTS
DESIGNED:	SAURABH NERVA	DATE:	24-12-04

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

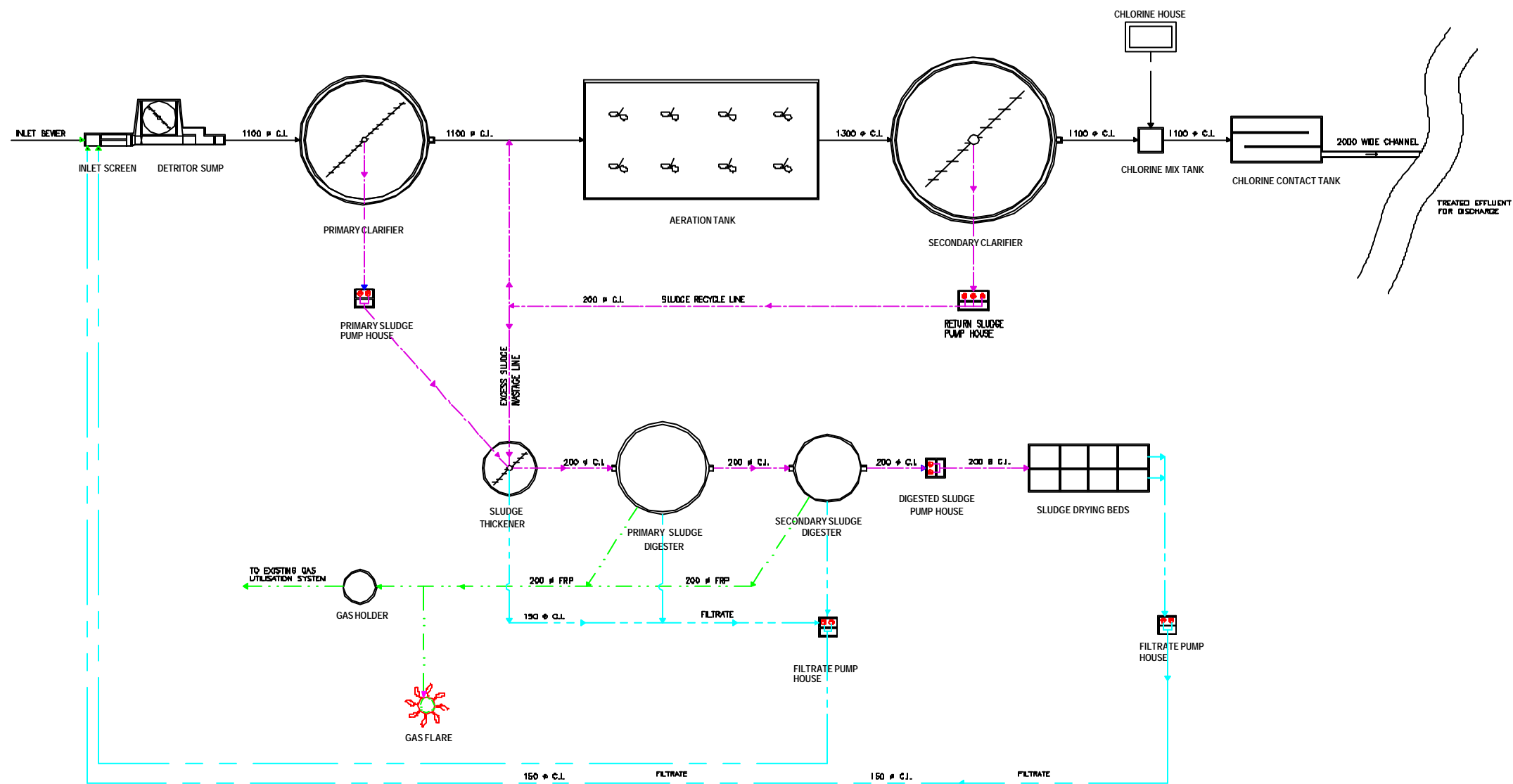
CONSULTANTS:

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- 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 KANPUR CITY

SHEET CONTENTS:
 HYDRAULIC FLOW DIAGRAM OF REHABILITATION OF JAJMAU STP (SHEET 2 OF 3)

DRAWING NO.	BR. NO.
KAN-STP-JAJMAU-2	109



**SCHMATIC FLOW DIAGRAM FOR
STP AT JAJMAU
(CAPACITY- 43.30MLD)**

LEGEND

- WASTEWATER LINE
- - - GAS LINE
- · - · - SLUDGE LINE
- - - FILTRATE LINE

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

REV.	DESCRIPTION OF REVISIONS	DATE	CHECKED

CHECKED BY: SAURABH MISRA		APPROVED BY: V.N.SONTAKKE	
DRAWN KARSHANIS	SCALE N.T.S.	DATE 16-11-2004	
DESIGNED			
SURVEYED			

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CONSULTANTS:
 TOKYO ENGINEERING CONSULTANTS CO., LTD.
 CTE 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 KANPUR CITY

SHEET CONTENTS:
 SCHEMATIC DIAGRAM OF REHABILITATION OF JAJMAU STP (SHEET 3/3)

DRAWING NO. KAN-STP-JAJMAU-3	SR. NO. 110
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