

**NOTE:**  
 PERMANENT BENCH MARK TAKEN FROM  
 OLD RAILWAY STATION 127.510 M.  
 ALL THE LEVELS ARE IN METERS.

**LEGEND:**

|                      |     |
|----------------------|-----|
| PROPOSED SEWER LINE  | --- |
| EXISTING SEWER LINE  | --- |
| ROAD                 | --- |
| RAILWAY LINE         | +   |
| BORE HOLE            | ○   |
| ELECTRICAL POLE      | ⊥   |
| FLOOR BOUNDARY       | --- |
| BUILDING             | --- |
| TEMPLE               | --- |
| BRIDGE / DIVERT      | --- |
| ROAD DIVIDER         | --- |
| MOBILE               | --- |
| SPOT LEVEL           | --- |
| NALLA                | --- |
| TEMPORARY BENCH MARK | --- |
| DRAINAGE MANHOLE     | MH  |
| SEWER 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
  - 4) CATCHMENT AREA OF DISTRICT-II KAN-CA-02-1

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELED.    |   |   |   |   |   |
| 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            | SCALE | AS SHOWN   |
| DESIGNED                   | M.D. NAGVEKAR            | DATE  | 24-12-2004 |
| SURVEYED                   | KUMAR SURVEY             |       |            |

**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 FROM KIDWAI NAGAR POLICE STATION (Node : Z2) TO MUNSHI PURWA SPS (Node : X2) (SHEET 1/7)

|             |         |
|-------------|---------|
| DRAWING NO. | SR. NO. |
| KAN-PP-KM-1 | 111     |



**NOTE:**  
PERMANENT BENCH MARK TAKEN FROM  
OLD RAILWAY STATION 127.510 M.  
ALL THE LEVELS ARE IN METERS.

**LEGEND:**

|                      |     |
|----------------------|-----|
| PROPOSED SEWER LINE  | --- |
| EXISTING SEWER LINE  | --- |
| ROAD                 | --- |
| RAILWAY LINE         | +   |
| BORE HOLE            | ○   |
| ELECTRICAL PILE      | +   |
| FLOOR BOUNDARY       | --- |
| BUILDING             | --- |
| TEMPLE               | --- |
| BRIDGE / CANAL       | --- |
| ROAD DIVIDER         | --- |
| MODSHE               | --- |
| SPOT LEVEL           | --- |
| NALLA                | --- |
| TEMPORARY BENCH MARK | --- |
| 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
  - 4) CATCHMENT AREA OF DISTRICT-II KAN-CA-02-1

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| DESD.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRV.    |   |   |   |   |   |
| CIVIL    |   |   |   |   |   |
| REV. NO. | 0 | 1 | 2 | 3 | 4 |

|      |                          |      |         |
|------|--------------------------|------|---------|
| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|      |                          |      |         |

|                       |               |               |            |
|-----------------------|---------------|---------------|------------|
| CHECKED BY:           |               | APPROVED BY:  |            |
| JUNAED KHAN           |               | V.N. SONTAKKE |            |
| DRAWN                 | D.S. KURDEKAR | SCALE         | AS SHOWN   |
| DESIGNED              | M.D. NAGVEKAR | DATE          | 24-12-2004 |
| SURVEYED KUMAR SURVEY |               |               |            |

**CONSULTANTS:**

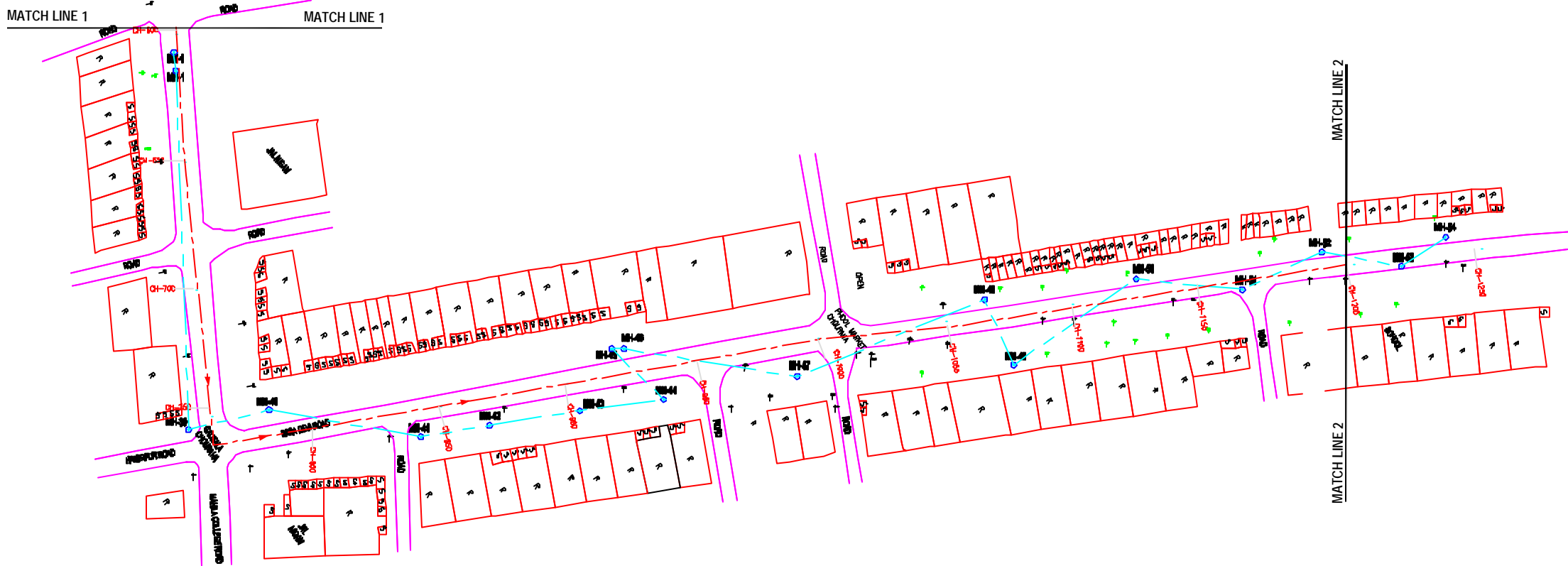
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM SINGHA PRAKASHI LIMITED

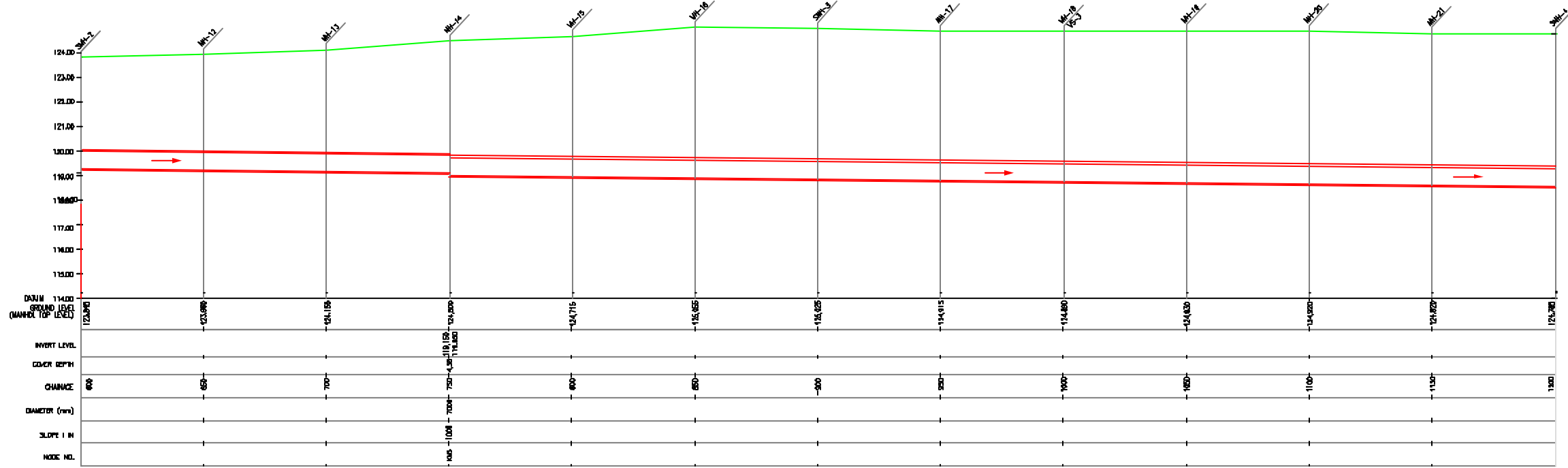
**PROJECT:**  
THE STUDY ON  
WATER QUALITY MANAGEMENT PLAN  
FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
PLAN & PROFILE FROM KIDWAI NAGAR POLICE STATION  
(Node : Z2) TO MUNSHI PURWA SPS (Node : X2)  
(SHEET 2/7)

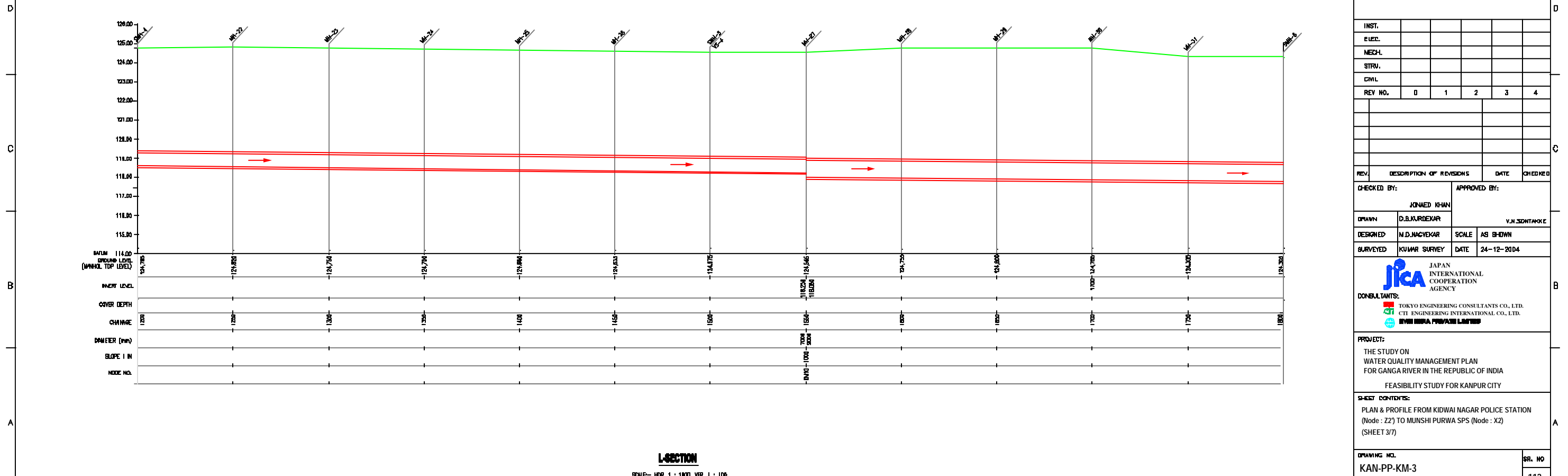
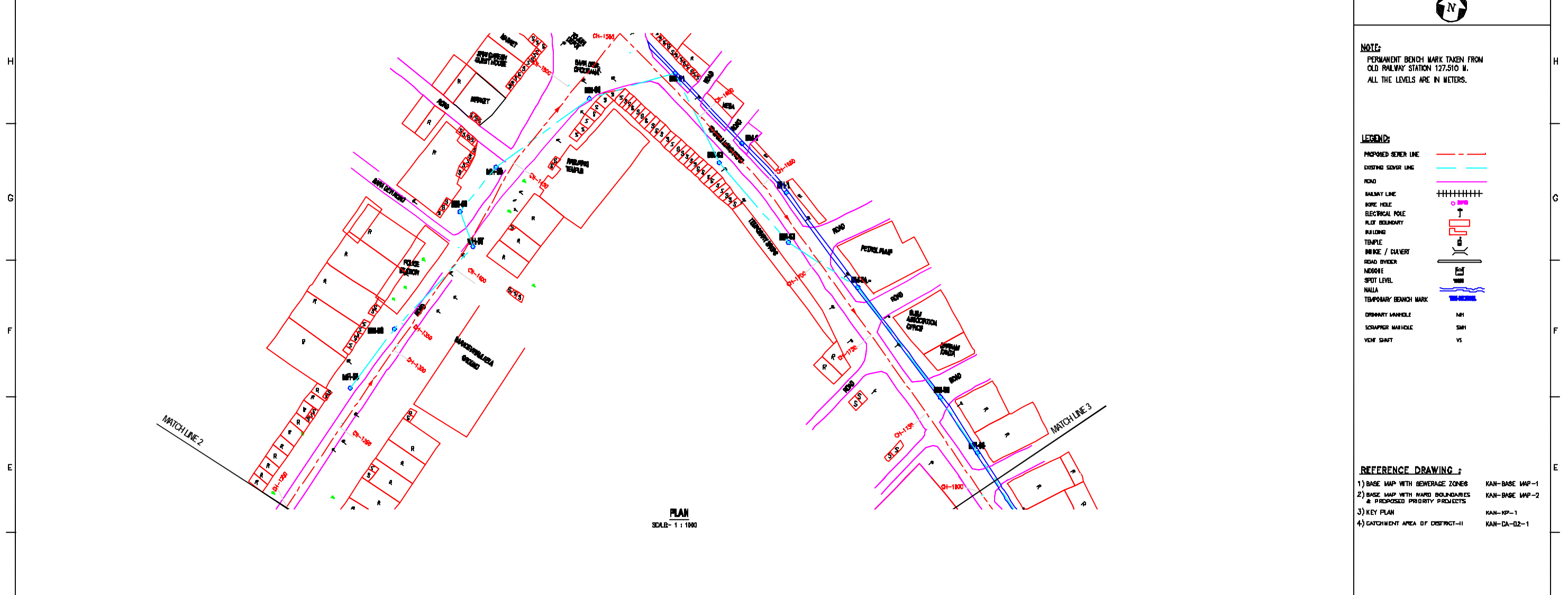
DRAWING NO. KAN-PP-KM-2  
SR. NO. 112



**PLAN**  
SCALE- 1 : 1000



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



**NOTE:**  
PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION 127.510 M.  
ALL THE LEVELS ARE IN METERS.

**LEGENDS:**

|                      |     |
|----------------------|-----|
| PROPOSED SEWER LINE  | --- |
| EXISTING SEWER LINE  | --- |
| ROAD                 | --- |
| RAILWAY LINE         | +   |
| BORE HOLE            | ○   |
| ELECTRICAL POLE      | ⊥   |
| FLOOR BOUNDARY       | --- |
| BUILDING             | --- |
| TEMPLE               | --- |
| BRIDGE / CHANNEL     | --- |
| ROAD DIVIDER         | --- |
| MOBILITY             | --- |
| SPOT LEVEL           | --- |
| NALLA                | --- |
| TEMPORARY BENCH MARK | --- |
| ORDINARY MANHOLE     | MH  |
| SCRAPPER MANHOLE     | SMH |
| VENT SHAFT           | VS  |

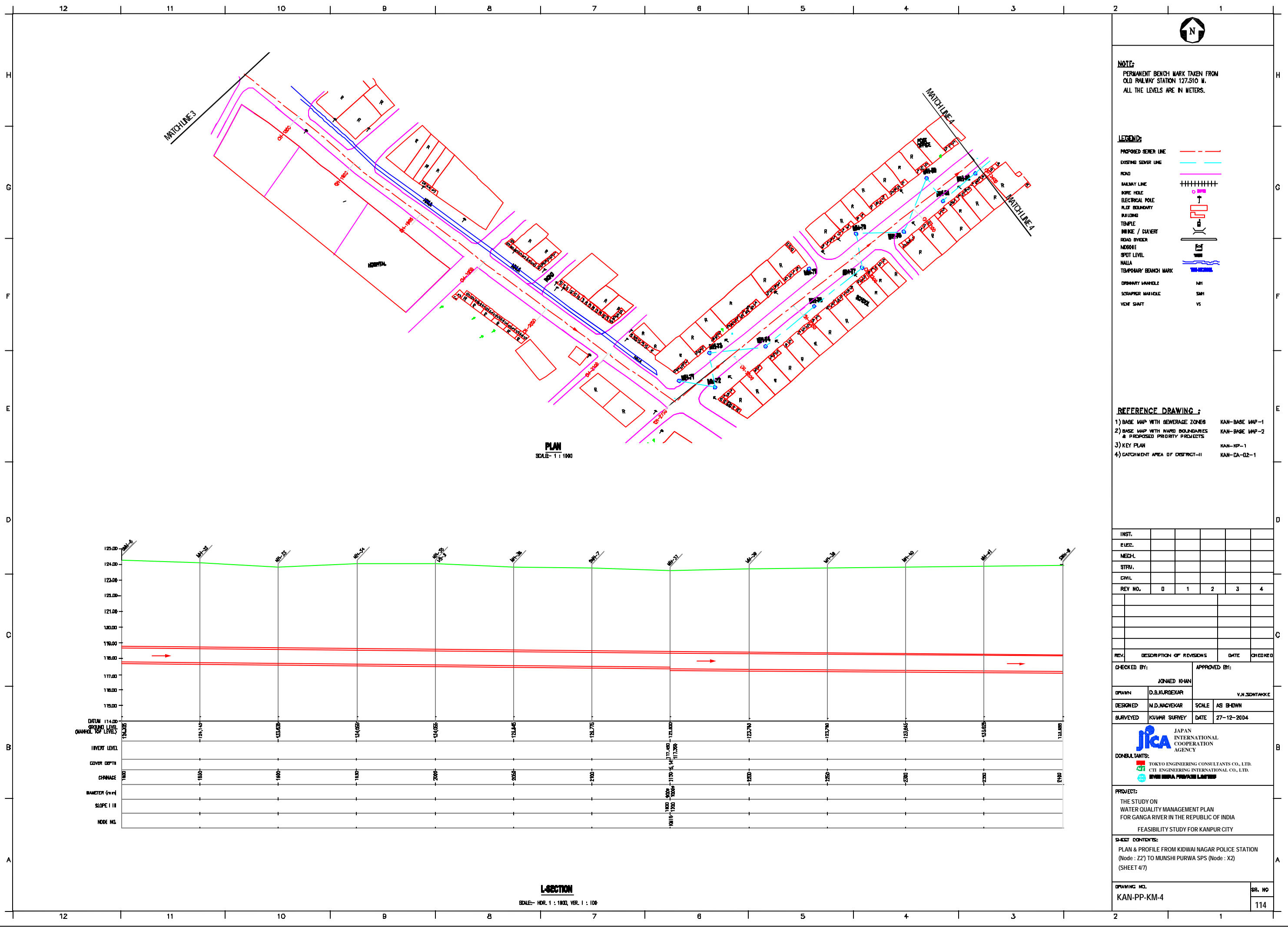
- REFERENCE DRAWING :**
- 1) BASE MAP WITH SEWERAGE ZONES KAN-BASE MAP-1
  - 2) BASE MAP WITH WARD BOUNDARIES & PROPOSED PRIORITY PROJECTS KAN-BASE MAP-2
  - 3) KEY PLAN KAN-KP-1
  - 4) CATCHMENT AREA OF DISTRICT-II KAN-CA-02-1

|                          |   |   |   |   |   |
|--------------------------|---|---|---|---|---|
| INST.                    |   |   |   |   |   |
| ELCC.                    |   |   |   |   |   |
| MECH.                    |   |   |   |   |   |
| STRV.                    |   |   |   |   |   |
| CIVL.                    |   |   |   |   |   |
| REV. NO.                 | 0 | 1 | 2 | 3 | 4 |
| REV.                     |   |   |   |   |   |
| DESCRIPTION OF REVISIONS |   |   |   |   |   |
| DATE                     |   |   |   |   |   |
| CHECKED                  |   |   |   |   |   |

CHECKED BY: **JONMED KHAN**  
 APPROVED BY: **V.N.SCHTAKKE**  
 DRAWN: **D.S.KURDEKAR**  
 DESIGNED: **N.D.NAGVEKAR**  
 SURVEYED: **KUMAR SURVEY**  
 SCALE: **AS SHOWN**  
 DATE: **24-12-2024**

**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 FROM KIDWAI NAGAR POLICE STATION (Node : Z2) TO MUNSHI PURWA SPS (Node : X2) (SHEET 3/7)



**NOTE:**  
 PERMANENT BENCH MARK TAKEN FROM  
 OLD RAILWAY STATION 127.510 M.  
 ALL THE LEVELS ARE IN METERS.

**LEGEND:**

|                      |     |
|----------------------|-----|
| PROPOSED SEWER LINE  | --- |
| EXISTING SEWER LINE  | --- |
| ROAD                 | --- |
| RAILWAY LINE         | +   |
| BORE HOLE            | ○   |
| ELECTRICAL POLE      | +   |
| FLOOR BOUNDARY       | --- |
| BUILDING             | --- |
| TEMPLE               | --- |
| BRIDGE / CHANNEL     | --- |
| ROAD DIVIDER         | --- |
| MODSHE               | --- |
| SPOT LEVEL           | --- |
| NALLA                | --- |
| TEMPORARY BENCH MARK | --- |
| ORDINARY MANHOLE     | MH  |
| SCUMPER 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
  - 4) CATCHMENT AREA OF DISTRICT-II KAN-CA-02-1

|          |                          |   |   |   |      |         |
|----------|--------------------------|---|---|---|------|---------|
| INST.    |                          |   |   |   |      |         |
| ELEC.    |                          |   |   |   |      |         |
| MECH.    |                          |   |   |   |      |         |
| STRV.    |                          |   |   |   |      |         |
| CIVL.    |                          |   |   |   |      |         |
| REV. NO. | 0                        | 1 | 2 | 3 | 4    |         |
| REV.     | DESCRIPTION OF REVISIONS |   |   |   | DATE | CHECKED |

|             |              |              |            |
|-------------|--------------|--------------|------------|
| CHECKED BY: |              | APPROVED BY: |            |
| JONMED KHAN |              | V.N.SCHTAKKE |            |
| DRAWN       | D.S.KURDEKAR | SCALE        | AS SHOWN   |
| DESIGNED    | M.D.NACVEKAR | DATE         | 27-12-2024 |
| SURVEYED    | KUMAR SURVEY |              |            |

**CONSULTANTS:**

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SIVANI 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 & PROFILE FROM KIDWAI NAGAR POLICE STATION (Node : Z2) TO MUNSHI PURWA SPS (Node : X2) (SHEET 4/7)

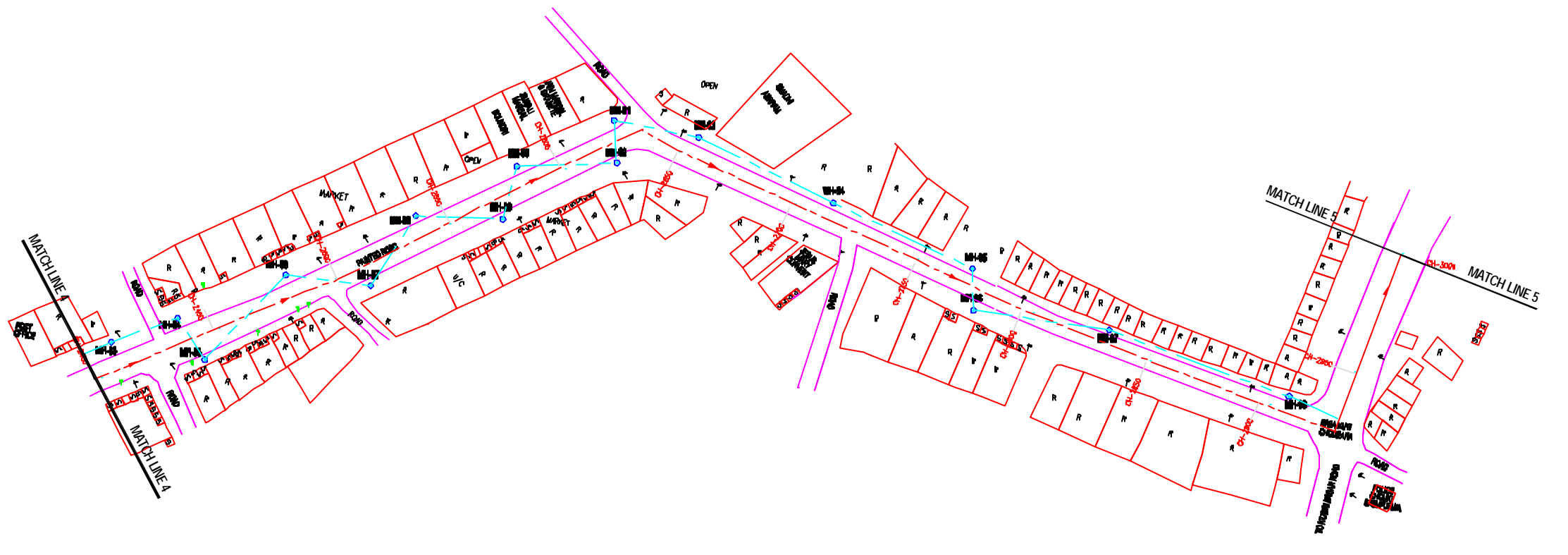


**NOTE:**  
 PERMANENT BENCH MARK TAKEN FROM  
 OLD RAILWAY STATION 127.510 M.  
 ALL THE LEVELS ARE IN METERS.

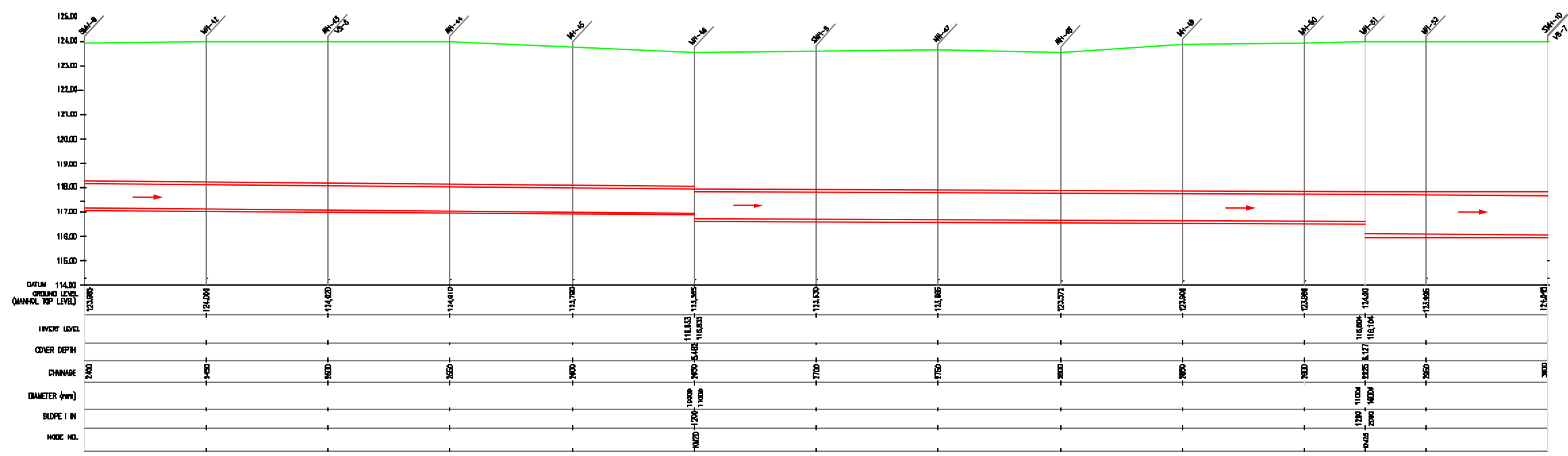
**LEGENDS:**

|                      |       |
|----------------------|-------|
| PROPOSED SEWER LINE  | ---   |
| EXISTING SEWER LINE  | ---   |
| ROAD                 | ---   |
| RAILWAY LINE         | +++++ |
| BORE HOLE            | ○     |
| ELECTRICAL POLE      | ⊥     |
| FLOOR BOUNDARY       | □     |
| BUILDING             | ▭     |
| TEMPLE               | ⊕     |
| BRIDGE / CHANNEL     | — —   |
| ROAD DIVIDER         | — —   |
| MODSHE               | — —   |
| SPOT LEVEL           | •     |
| NALLA                | ~     |
| TEMPORARY BENCH MARK | BM    |
| ORDINARY MANHOLE     | MH    |
| SCUMPER 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
  - 4) CATCHMENT AREA OF DISTRICT-II KAN-CA-02-1



**PLAN**  
 SCALE- 1 : 1000



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

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELCC.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRV.    |   |   |   |   |   |
| CIVL.    |   |   |   |   |   |
| REV. NO. | 0 | 1 | 2 | 3 | 4 |

|             |              |
|-------------|--------------|
| CHECKED BY: | APPROVED BY: |
| JONMED KHAN | V.N.SCHTAKKE |
| DRAWN       | D.B.KURDEKAR |
| DESIGNED    | N.D.NACVEKAR |
| BURVEYED    | KUMAR SURVEY |
| SCALE       | AS SHOWN     |
| DATE        | 27-12-2024   |

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
 CONSULTANTS:  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 C.T.I. ENGINEERING INTERNATIONAL CO., LTD.  
 SIVSIRI 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 & PROFILE FROM KIDWAI NAGAR POLICE STATION  
 (Node : Z2) TO MUNSHI PURWA SPS (Node : X2)  
 (SHEET 5/7)



**NOTE:**  
PERMANENT BENCH MARK TAKEN FROM  
OLD RAILWAY STATION 127.510 M.  
ALL THE LEVELS ARE IN METERS.

**LEGEND:**

|                      |  |
|----------------------|--|
| PROPOSED SEWER LINE  |  |
| EXISTING SEWER LINE  |  |
| ROAD                 |  |
| RAILWAY LINE         |  |
| BORE HOLE            |  |
| ELECTRICAL POLE      |  |
| FLOOR BOUNDARY       |  |
| BUILDING             |  |
| TEMPLE               |  |
| BRIDGE / CHANNEL     |  |
| ROAD DIVIDER         |  |
| MODHOLE              |  |
| SPOT LEVEL           |  |
| NALLA                |  |
| TEMPORARY BENCH MARK |  |
| ORDINARY MANHOLE     |  |
| SCUMPER MANHOLE      |  |
| VENT SHAFT           |  |

**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 OF DISTRICT-II                              | KAN-CA-02-1    |

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

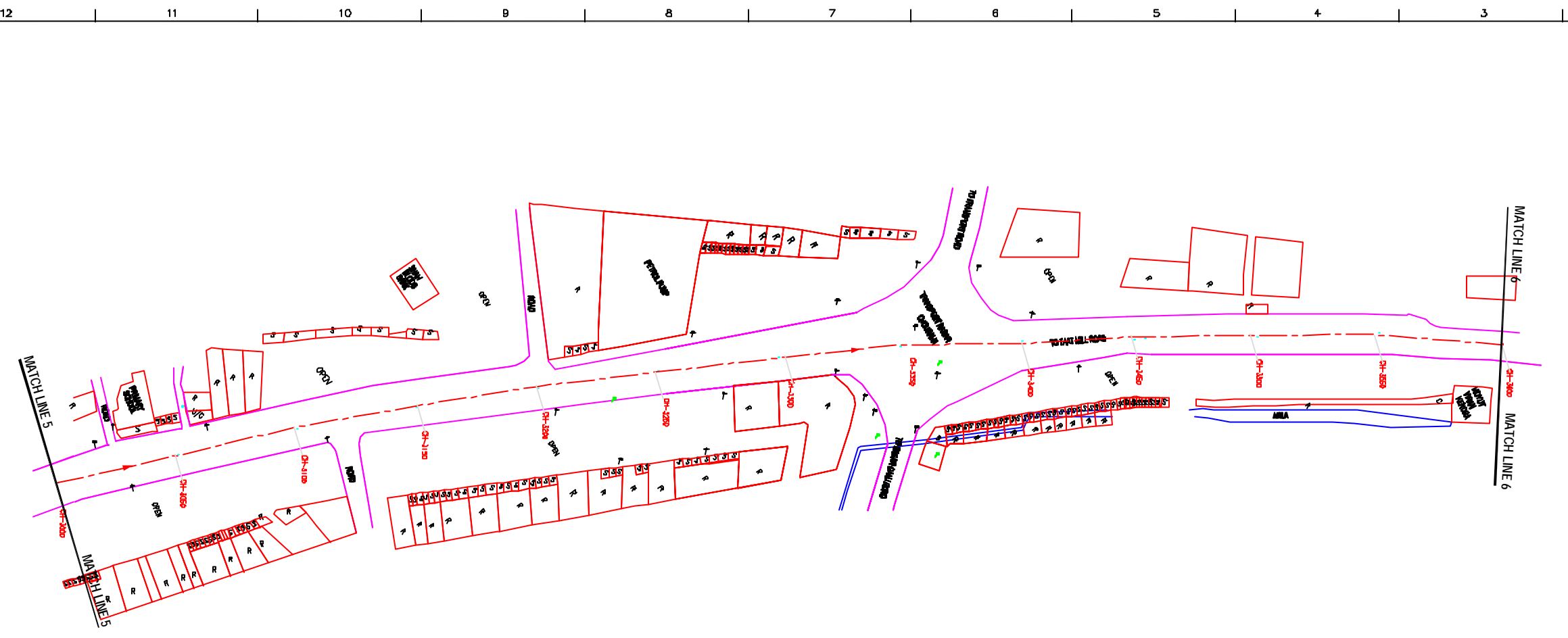
|             |              |              |            |
|-------------|--------------|--------------|------------|
| CHECKED BY: |              | APPROVED BY: |            |
| JUNAED KHAN |              | V.N.SONTAKKE |            |
| DRAWN       | D.S.KURDEKAR | SCALE        | AS SHOWN   |
| DESIGNED    | M.D.NAGVEKAR | DATE         | 27-12-2024 |
| SURVEYED    | KUMAR SURVEY |              |            |

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
CONSULTANTS:  
TOKYO ENGINEERING CONSULTANTS CO., LTD.  
CTI ENGINEERING INTERNATIONAL CO., LTD.  
SHYAM SERRA PRAKASH LIMITED

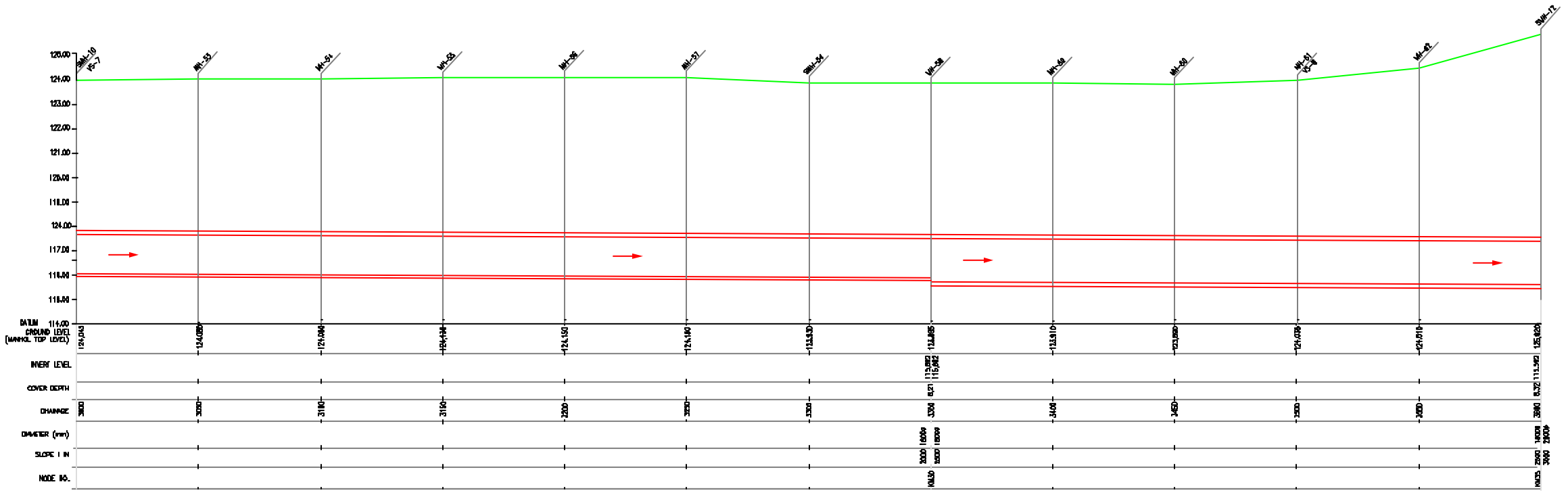
**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
PLAN & PROFILE FROM KIDWAI NAGAR POLICE STATION (Node : Z2) TO MUNSHI PURWA SPS (Node : X2) (SHEET 6/7)

|             |         |
|-------------|---------|
| DRAWING NO. | SR. NO. |
| KAN-PP-KM-6 | 116     |



**PLAN**  
SCALE- 1 : 1000



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

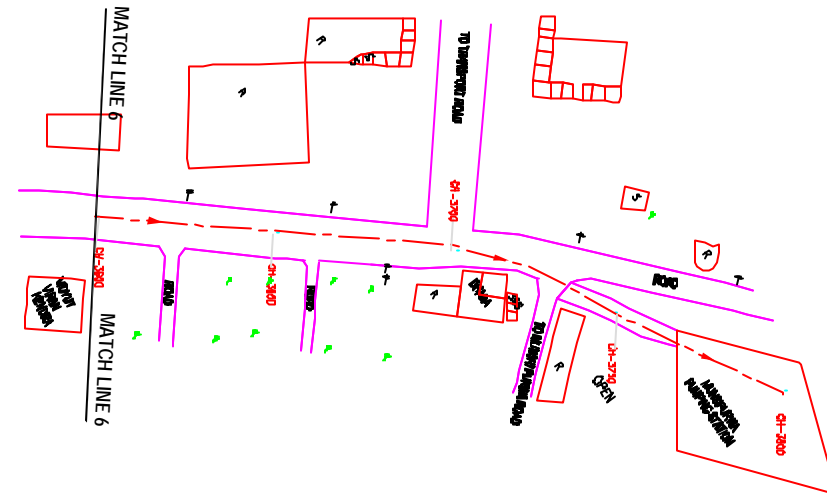


**NOTE:**  
PERMANENT BENCH MARK TAKEN FROM  
OLD RAILWAY STATION 127.510 M.  
ALL THE LEVELS ARE IN METERS.

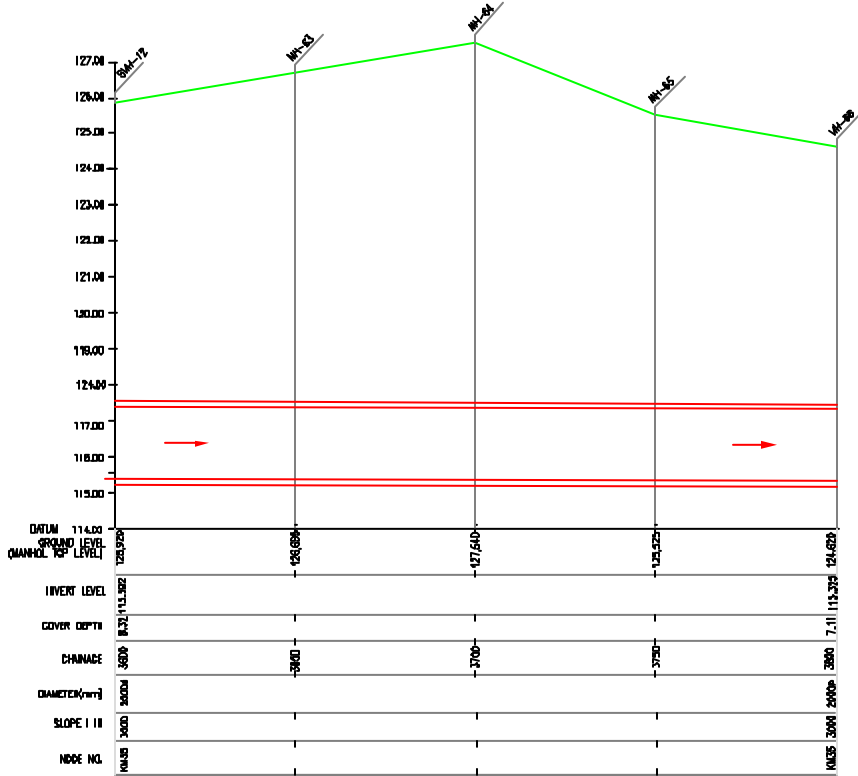
**LEGEND:**

|                      |       |
|----------------------|-------|
| PROPOSED SEWER LINE  | ---   |
| EXISTING SEWER LINE  | ---   |
| ROAD                 | ---   |
| RAILWAY LINE         | +++++ |
| WIRE HOLE            | ○     |
| ELECTRICAL POLE      | ↑     |
| PILOT BOUNDARY       | □     |
| BUILDING             | ■     |
| TEMPLE               | ⊕     |
| BRIDGE / CANAL       | —     |
| ROAD DIVIDER         | —     |
| MOSQUE               | ⊕     |
| SPOT LEVEL           | △     |
| MALLA                | ~     |
| TEMPORARY BENCH MARK | △     |
| ORDINARY MANHOLE     | MH    |
| SEWER 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
  - 4) CATCHMENT AREA OF DISTRICT-II KAN-CA-02-1



**PLAN**  
SCALE- 1 : 1000



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

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

|      |                          |      |         |
|------|--------------------------|------|---------|
| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|      |                          |      |         |

|                        |                  |
|------------------------|------------------|
| CHECKED BY:            | APPROVED BY:     |
| JOHNAED KHAN           | V.N.SCHTAKKE     |
| DRAWN: D.S.KURODKAR    | SCALE: AS SHOWN  |
| DESIGNED: M.D.NACHYKAR | DATE: 27-12-2004 |
| BURVEYED: KUMAR SURVEY |                  |

**CONSULTANTS:**

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

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

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

**SHYAM SERRA PRIVATE LIMITED**

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

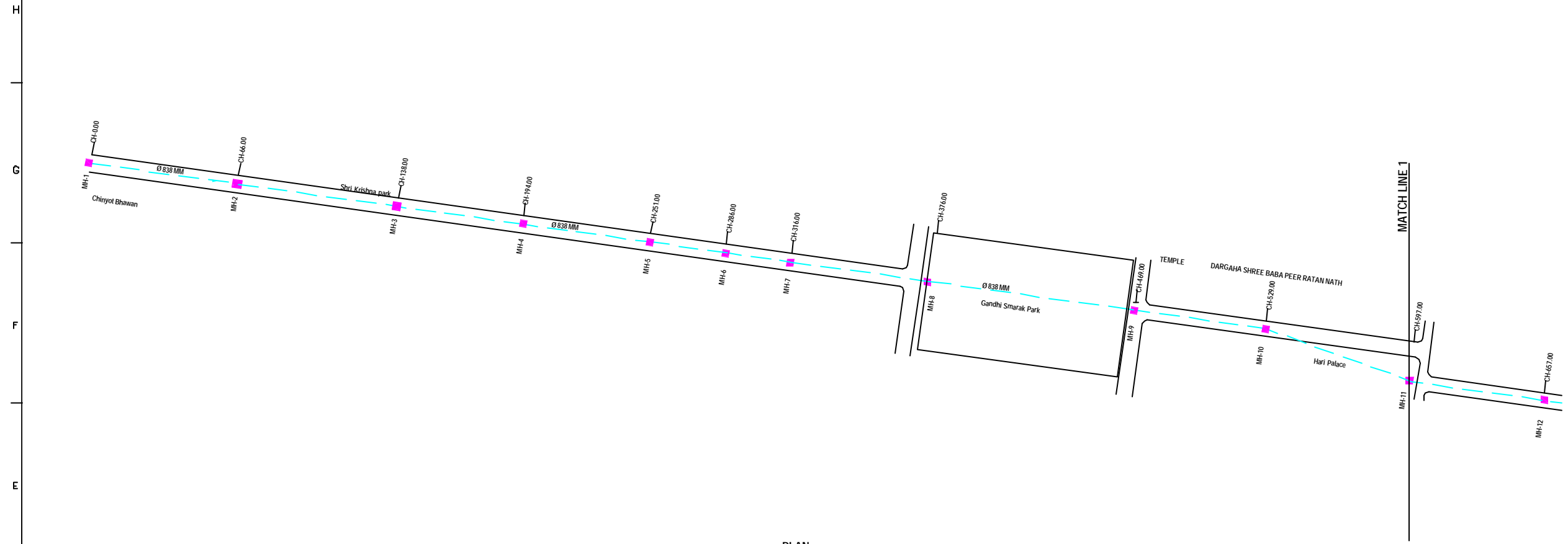
**SHEET CONTENTS:**  
PLAN & PROFILE FROM KIDWAI NAGAR POLICE STATION  
(Node : Z2) TO MUNSHI PURWA SPS (Node : X2)  
(SHEET 7/7)

DRAWING NO. **KAN-PP-KM-7** SR. NO. **117**

12 11 10 9 8 7 6 5 4 3 2 1



**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 DIVIDER         |  |
| MOSQUE               |  |
| SPOT LEVEL           |  |
| NALLA                |  |
| TEMPORARY BENCH MARK |  |
| MANHOLE TOP COVER    |  |

**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  
 4) DATCHMENT AREA KAN-CAN-02-1

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

|                                  |                          |       |            |
|----------------------------------|--------------------------|-------|------------|
| REV.                             | DESCRIPTION OF REVISIONS | DATE  | CHECKED    |
| CHECKED BY: <b>JOHNAED KHAN</b>  |                          |       |            |
| APPROVED BY: <b>V.N.SCHTAKKE</b> |                          |       |            |
| DRAWN                            | R.D.METRE                | SCALE | AS SHOWN   |
| DESIGNED                         |                          | DATE  | 18-11-2004 |

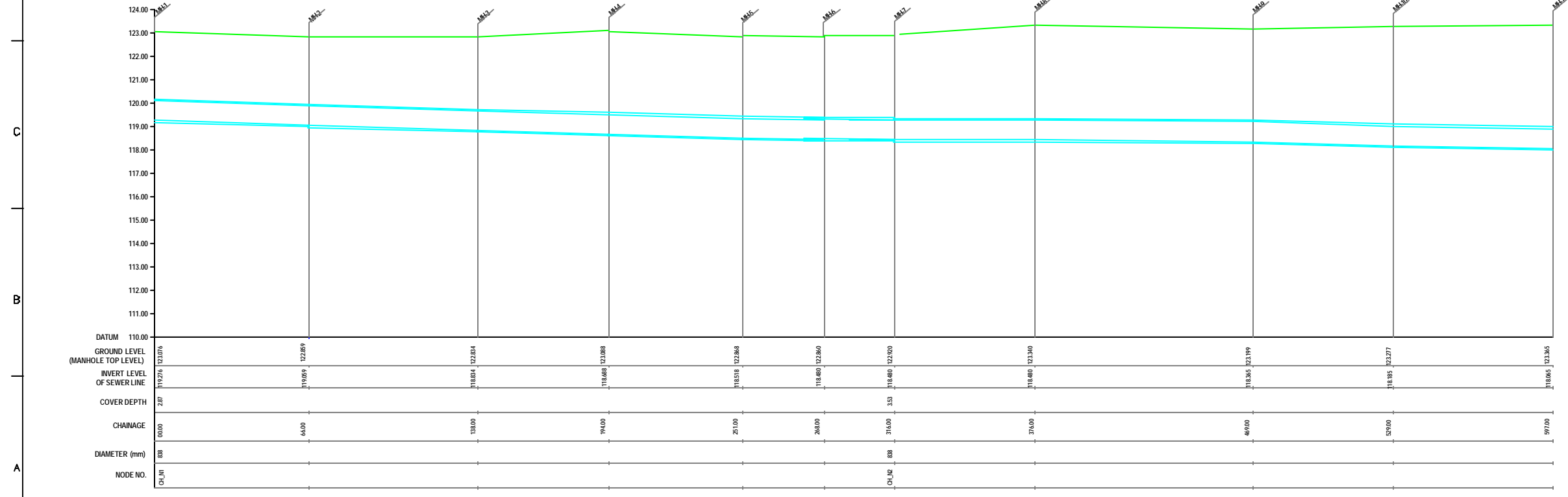
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM PRASAD JAIN & PARTNERS

**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  
 FORM CHINYOT BHAVAN GOVIND NAGAR TO HARIHAR NATH SHASHTRI PARK JUHI  
 (SHEET 1/8)

**DRAWING NO.**  
 KAN-PP-CHM-1

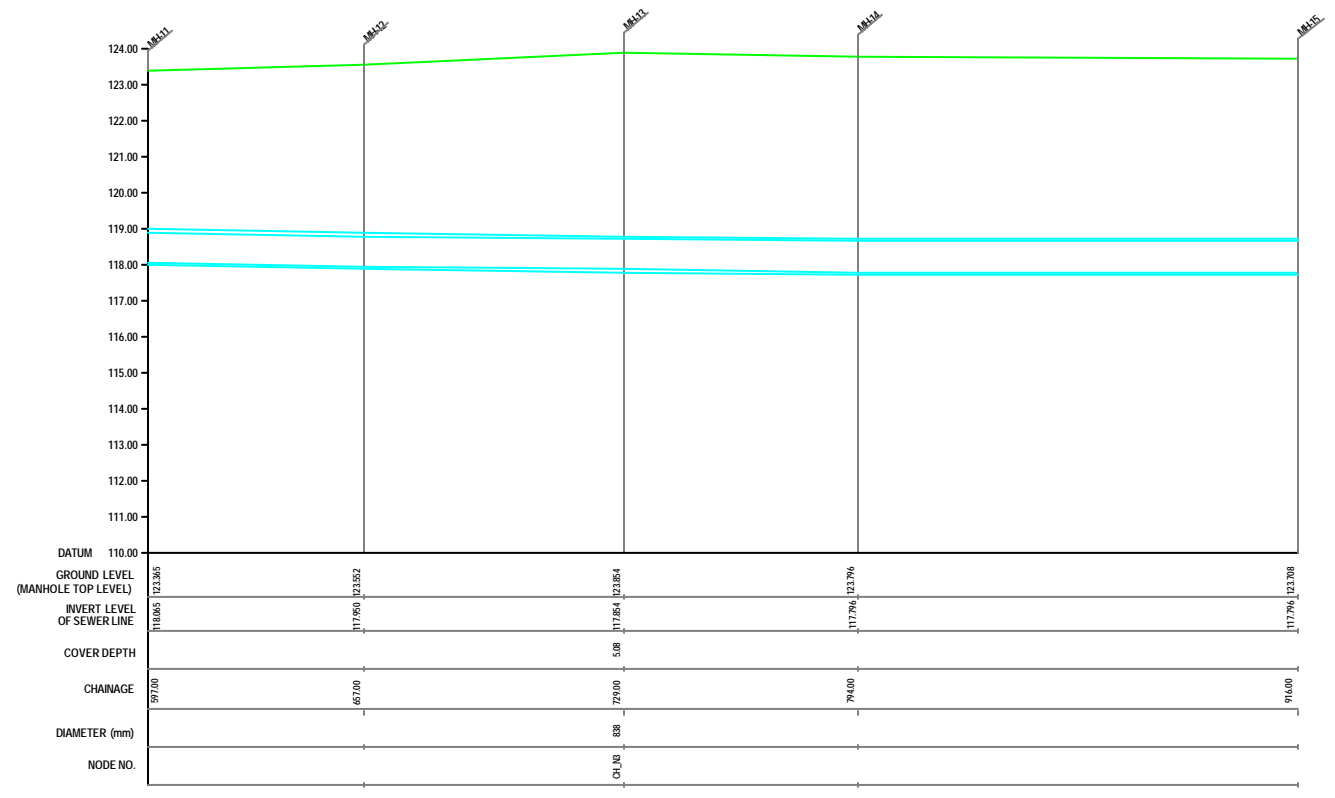
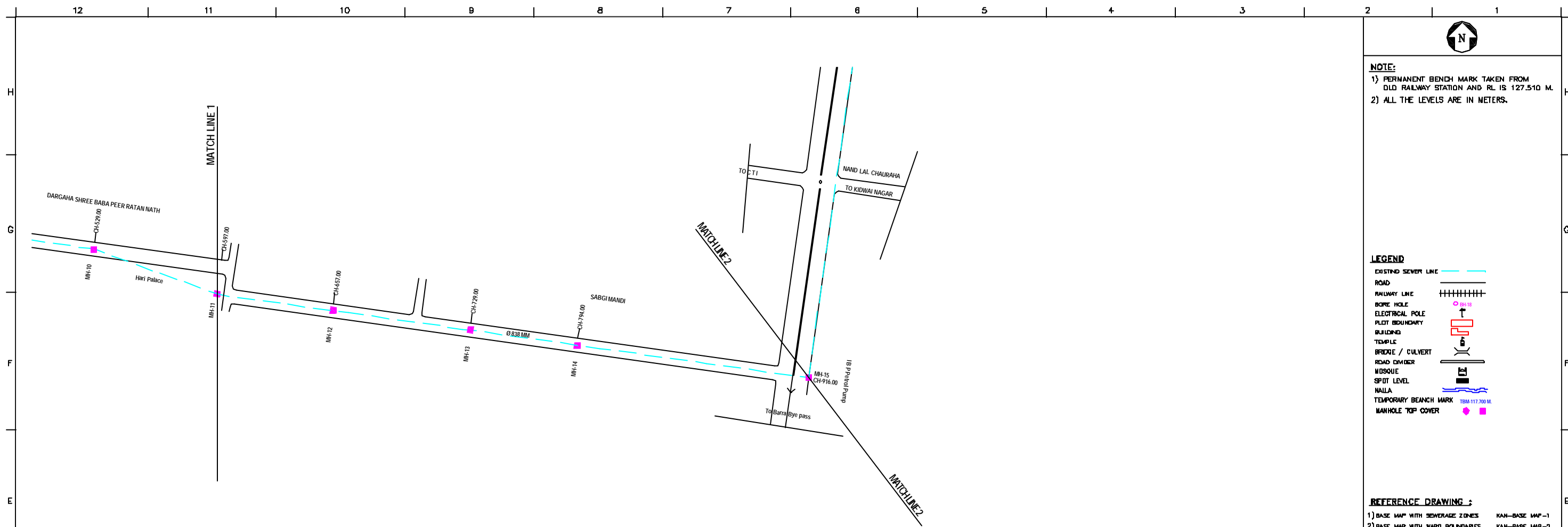
**SR. NO.**  
 118



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

12 11 10 9 8 7 6 5 4 3 2 1





**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 CUMBER          |  |
| HUSOLE               |  |
| SPOT LEVEL           |  |
| NALLA                |  |
| TEMPORARY BENCH MARK |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELCD.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRU.    |   |   |   |   |   |
| CIVL.    |   |   |   |   |   |
| REV. NO. | 0 | 1 | 2 | 3 | 4 |

| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|------|--------------------------|------|---------|
|      |                          |      |         |

|             |           |              |            |
|-------------|-----------|--------------|------------|
| CHECKED BY: |           | APPROVED BY: |            |
| JONMED KHAN |           | V.N.SCHTAKKE |            |
| DRAWN       | R.D.METRE | SCALE        | AS SHOWN   |
| DESIGNED    |           | DATE         | 18-11-2004 |

**CONSULTANTS:**

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

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

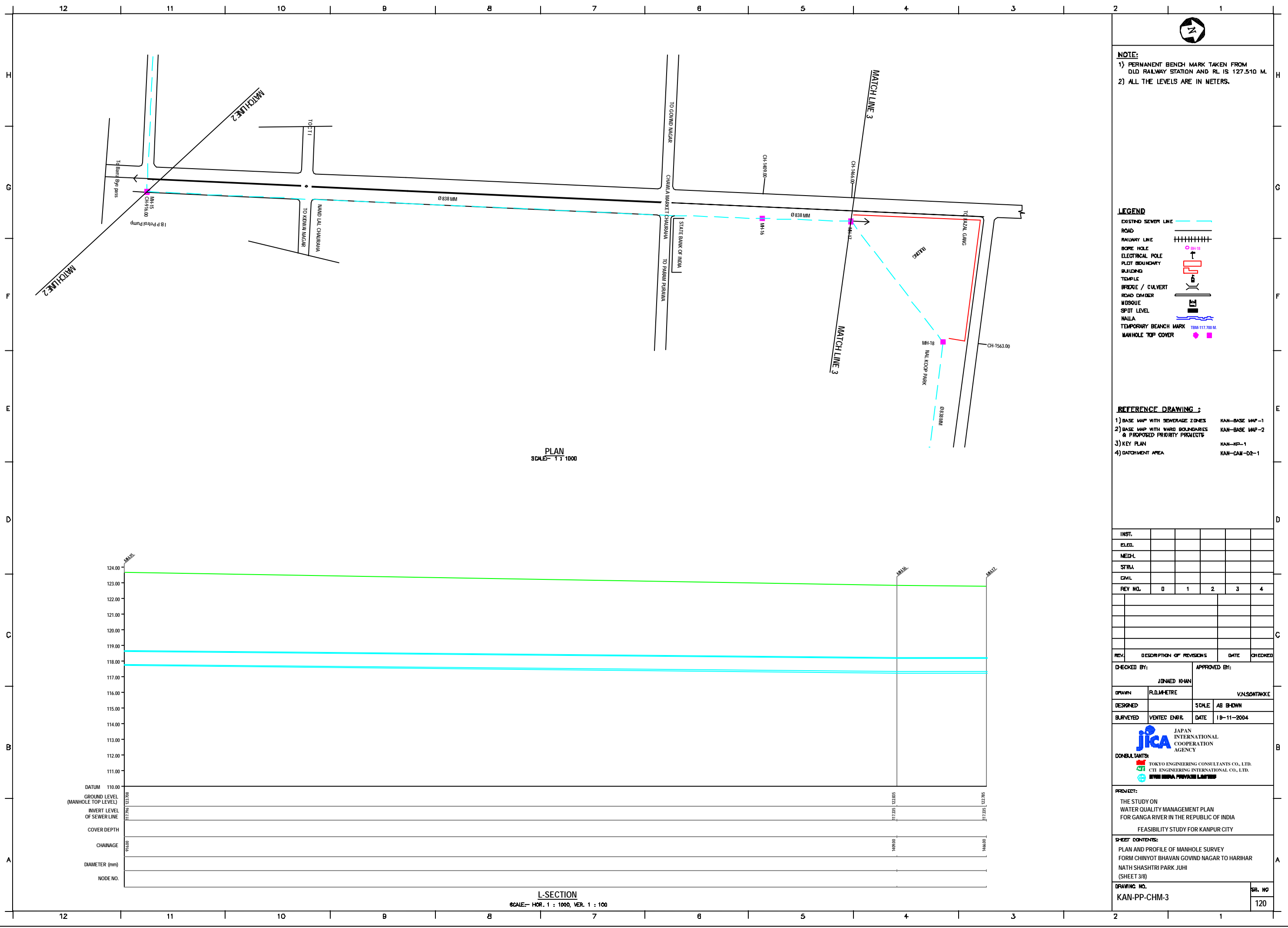
**CTI ENGINEERING INTERNATIONAL CO., LTD.**

**SHYAM SIVA PRASAD 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 FORM CHINYOT BHAVAN GOVIND NAGAR TO HARIHAR NATH SHASHTRI PARK JUHI (SHEET 2/8)

|              |         |
|--------------|---------|
| DRAWING NO.  | SR. NO. |
| KAN-PP-CHM-2 | 119     |



**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 OVERBRIDGE
  - MOSQUE
  - SPOT LEVEL
  - NALLA
  - TEMPORARY BENCH MARK
  - MANHOLE TOP COVER

- 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-02-1

| REV. NO. | 0 | 1 | 2 | 3 | 4 |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELED.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRU.    |   |   |   |   |   |
| CIVIL    |   |   |   |   |   |

| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|------|--------------------------|------|---------|
|      |                          |      |         |

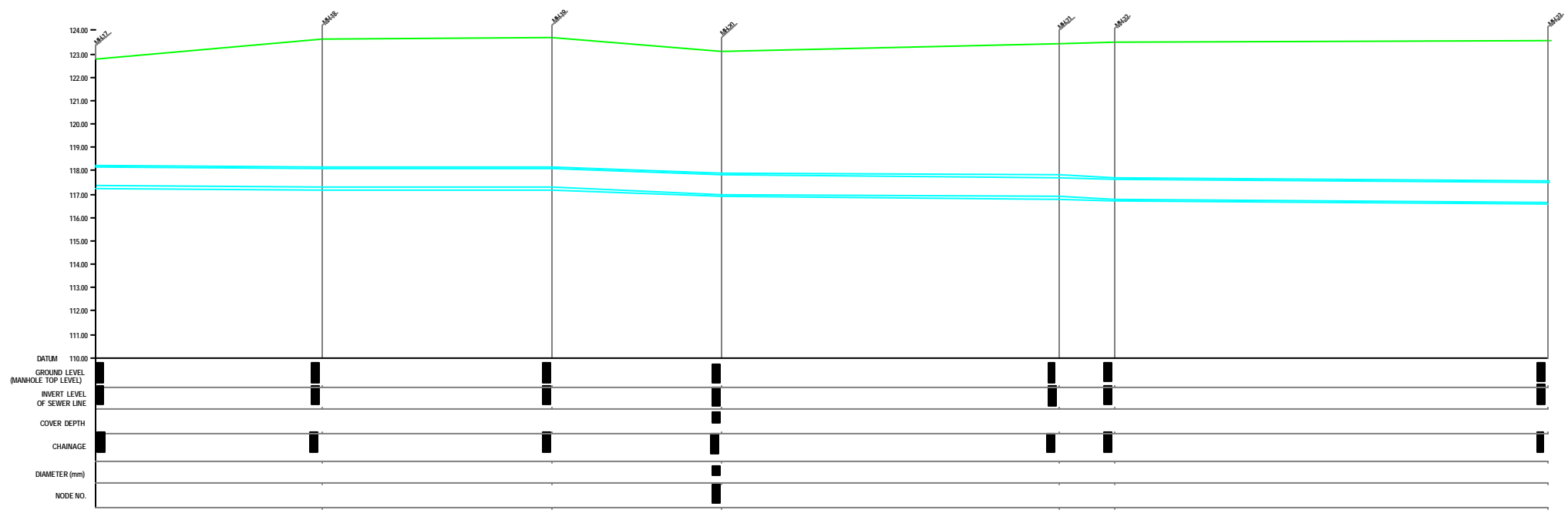
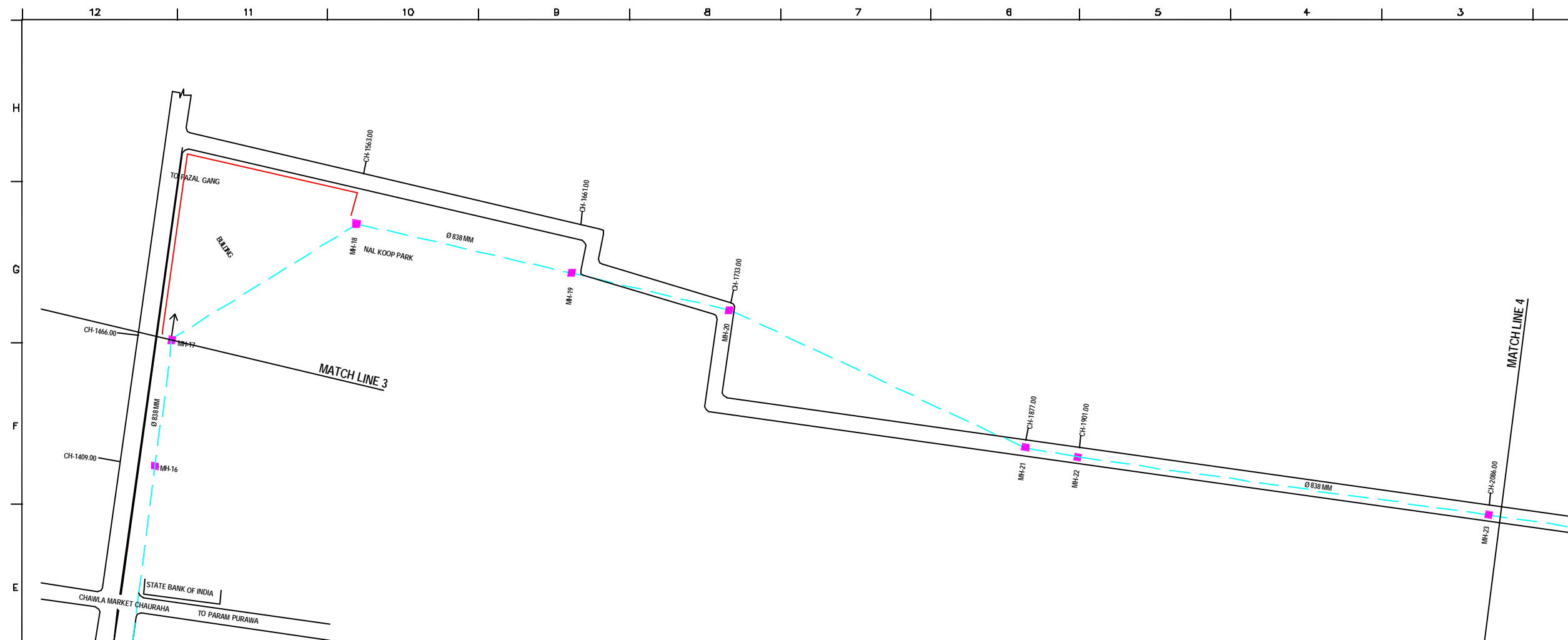
**CHECKED BY:** JUNAED KHAN  
**APPROVED BY:** V.N.SCHTAKKE  
**DRAWN:** R.D.METRE  
**DESIGNED:** SCALE AS SHOWN  
**BURVEYED:** VENTEC ENGR. DATE 18-11-2004

**CONSULTANTS:**  
 JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM 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 FORM CHINYOT BHAVAN GOVIND NAGAR TO HARIHAR NATH SHASHTRI PARK JUHI (SHEET 3/8)

|                                    |                       |
|------------------------------------|-----------------------|
| <b>DRAWING NO.</b><br>KAN-PP-CHM-3 | <b>SR. NO.</b><br>120 |
|------------------------------------|-----------------------|



**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 |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |

|                          |   |   |   |   |   |
|--------------------------|---|---|---|---|---|
| INST.                    |   |   |   |   |   |
| ELED.                    |   |   |   |   |   |
| MECH.                    |   |   |   |   |   |
| STRA.                    |   |   |   |   |   |
| CWL.                     |   |   |   |   |   |
| REV. NO.                 | 0 | 1 | 2 | 3 | 4 |
| REV.                     |   |   |   |   |   |
| DESCRIPTION OF REVISIONS |   |   |   |   |   |
| DATE                     |   |   |   |   |   |
| CHECKED                  |   |   |   |   |   |

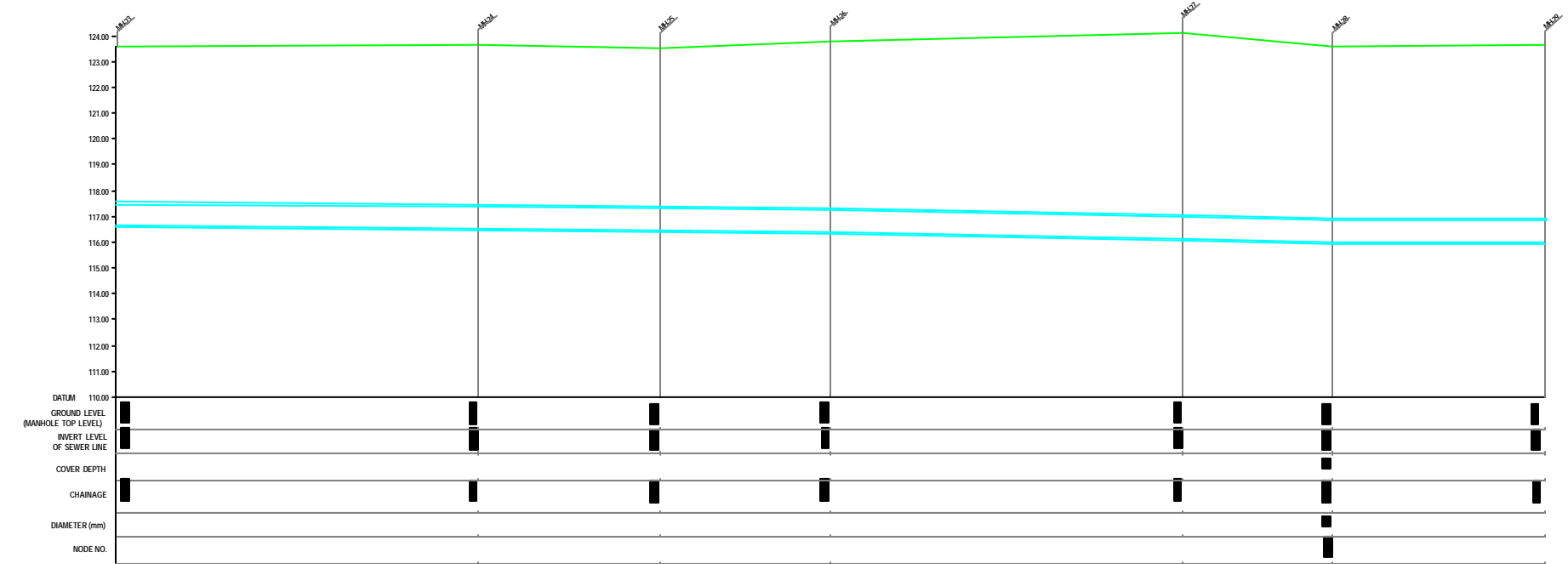
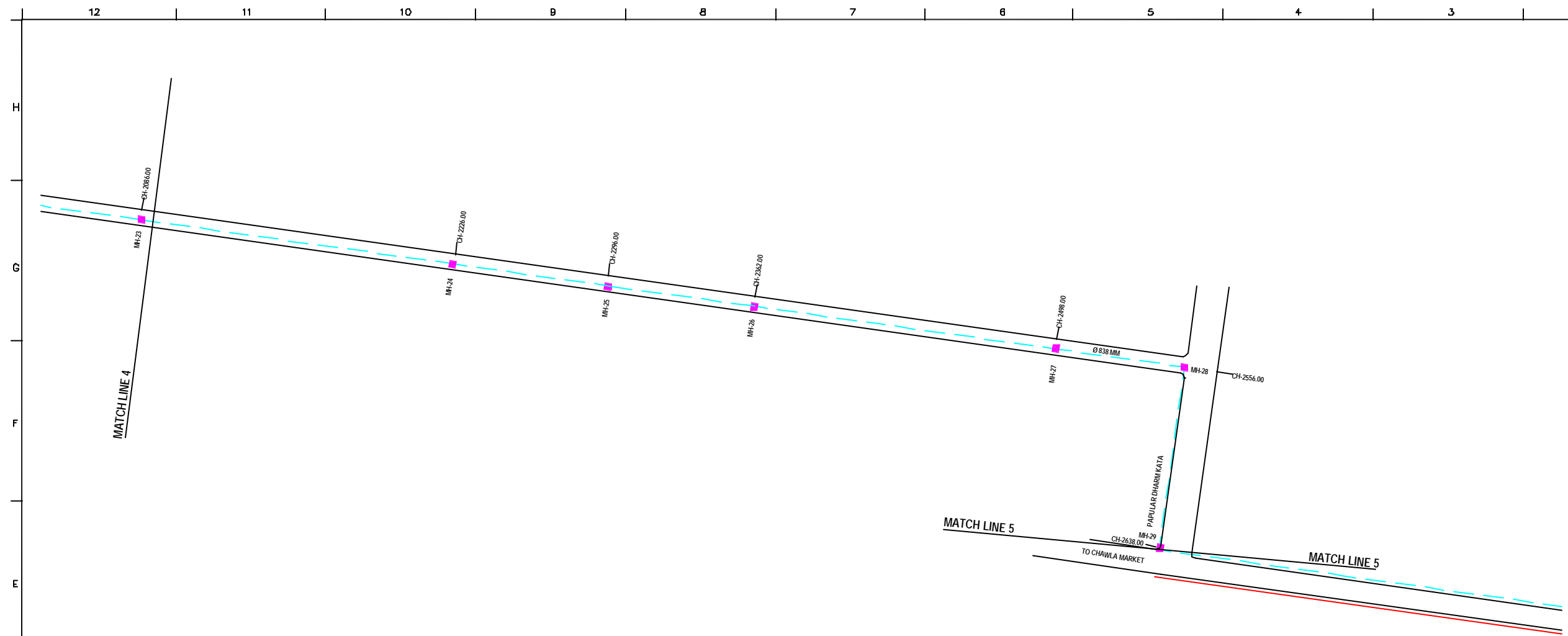
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|-------------|--------------|--------------|------------|
| CHECKED BY: |              | APPROVED BY: |            |
| JONMED KHAN |              | V.N.SCHTAKKE |            |
| DRAWN       | R.D.METRE    | SCALE        | AS SHOWN   |
| DESIGNED    |              | DATE         | 19-11-2004 |
| BURVEYED    | 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  
 FORM CHINYOT BHAVAN GOVIND NAGAR TO HARIHAR NATH SHASHTRI PARK JUHI  
 (SHEET 4/8)

|              |         |
|--------------|---------|
| DRAWING NO.  | SR. NO. |
| KAN-PP-CHM-4 | 121     |



**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 |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELEC.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STR.     |   |   |   |   |   |
| 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    |              | DATE         | 18-11-2004 |
| BURVEYED    | VENTEC ENGR. |              |            |

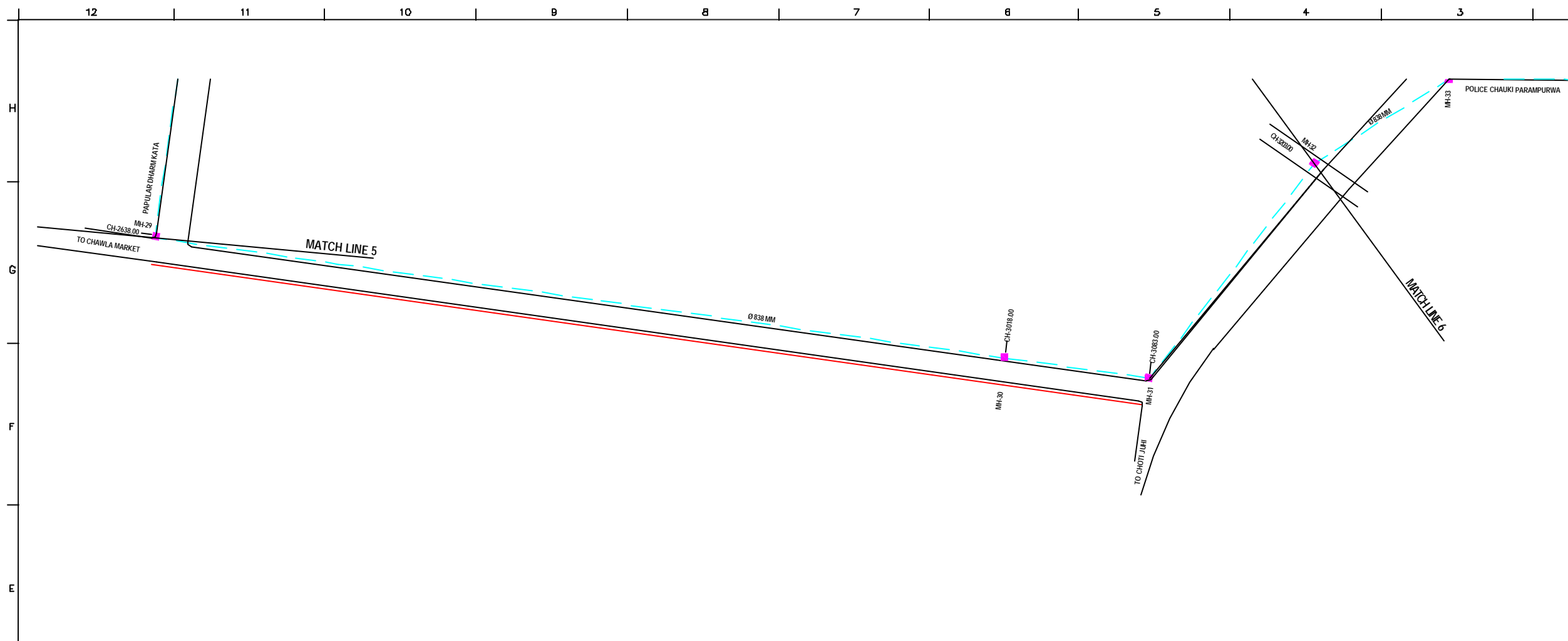
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH PRAKASH LIMITED

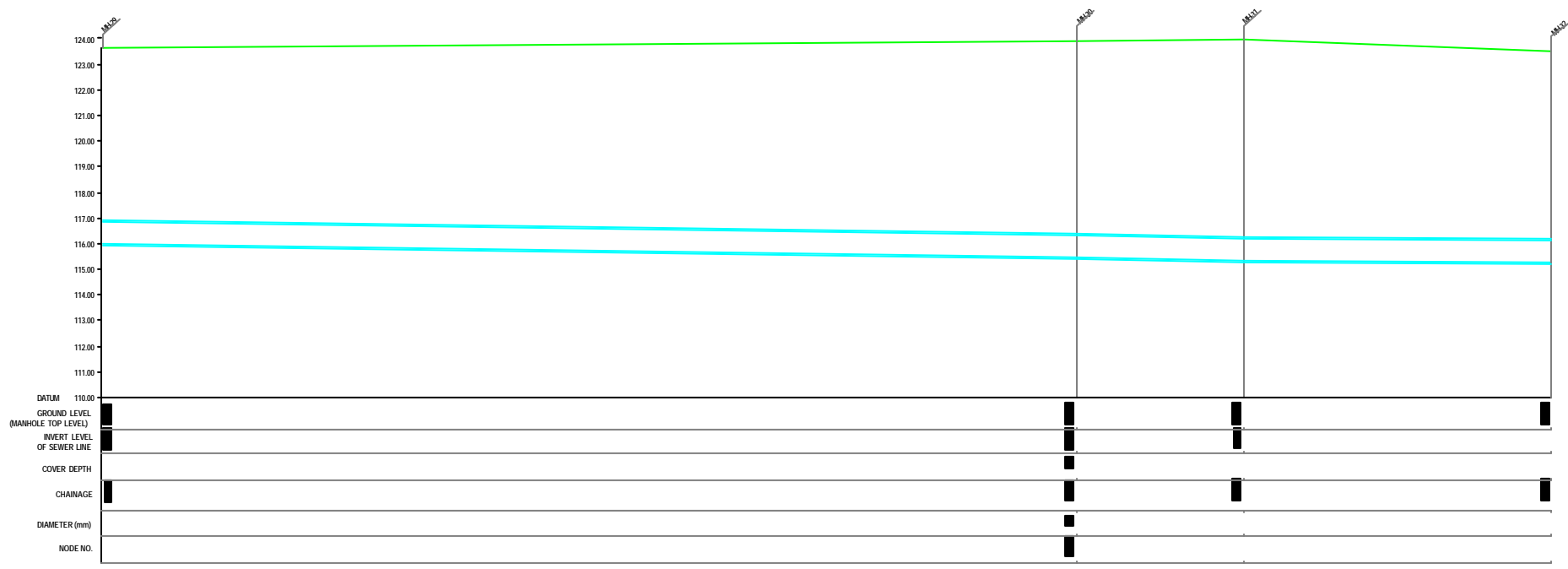
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF MANHOLE SURVEY  
 FORM CHINYOT BHAVAN GOVIND NAGAR TO HARIHAR NATH SHASHTRI PARK JUHI  
 (SHEET 5/8)

|              |         |
|--------------|---------|
| DRAWING NO.  | SR. NO. |
| KAN-PP-CHM-5 | 122     |



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 CUMBER          |  |
| WINDSOLE             |  |
| SPOT LEVEL           |  |
| NALLA                |  |
| TEMPORARY BENCH MARK |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |

|                          |   |   |   |   |   |
|--------------------------|---|---|---|---|---|
| INST.                    |   |   |   |   |   |
| ELED.                    |   |   |   |   |   |
| MECH.                    |   |   |   |   |   |
| STRA.                    |   |   |   |   |   |
| CIVIL                    |   |   |   |   |   |
| 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**  
DESIGNED: **SCALE AS SHOWN**  
SURVEYED: **VENTEC ENGR. DATE 19-11-2004**

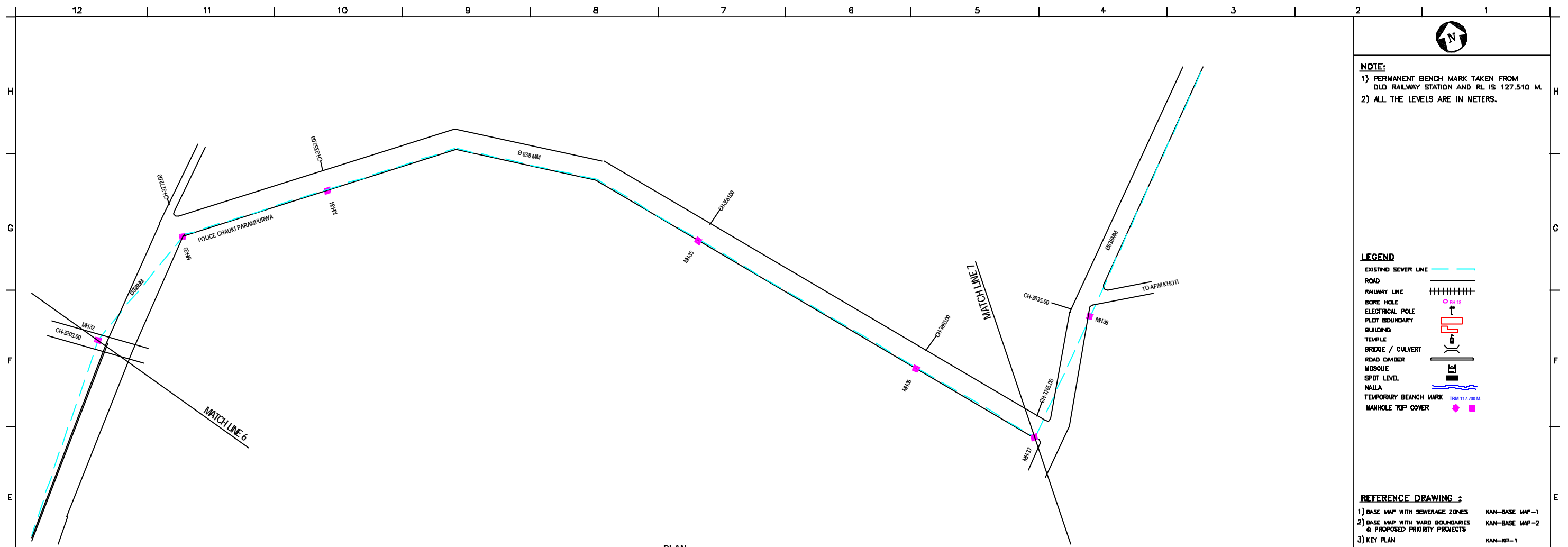
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

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

**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 FORM CHINYOT BHAVAN GOVIND NAGAR TO HARIHAR NATH SHASTRI PARK JUHI (SHEET 6/8)

DRAWING NO. **KAN-PP-CHM-6** SR. NO. **123**



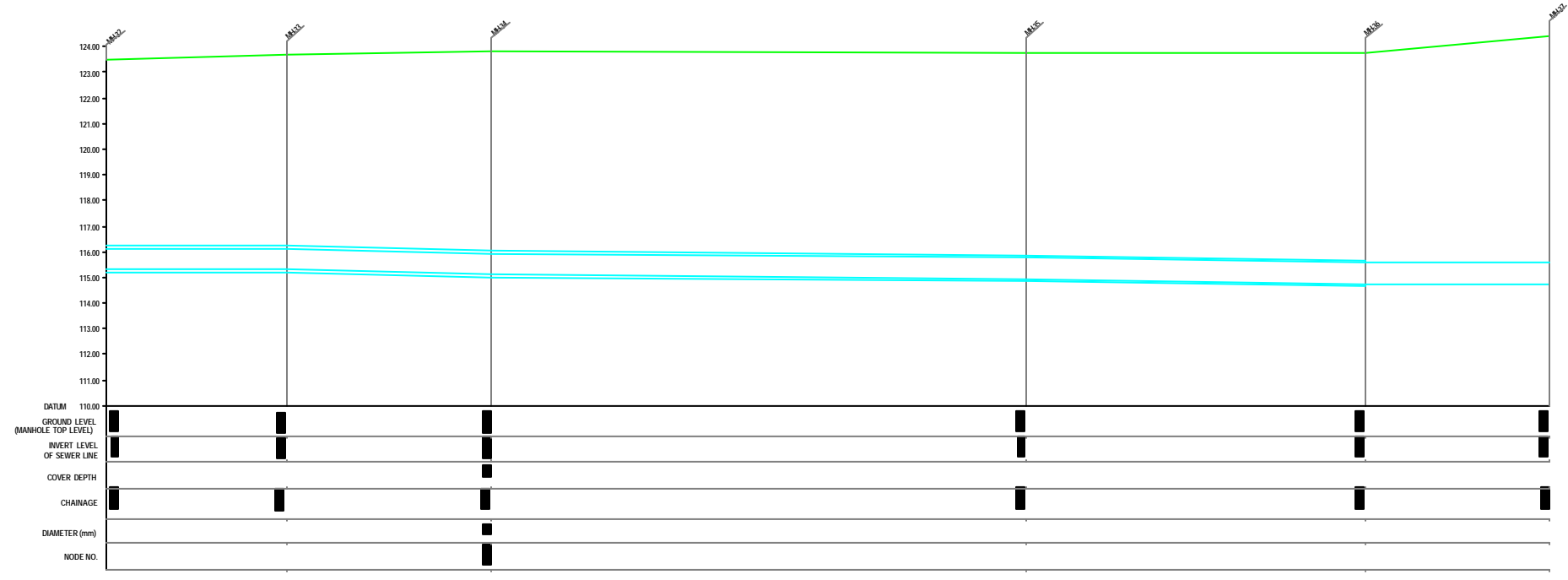
**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**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 |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |



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

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

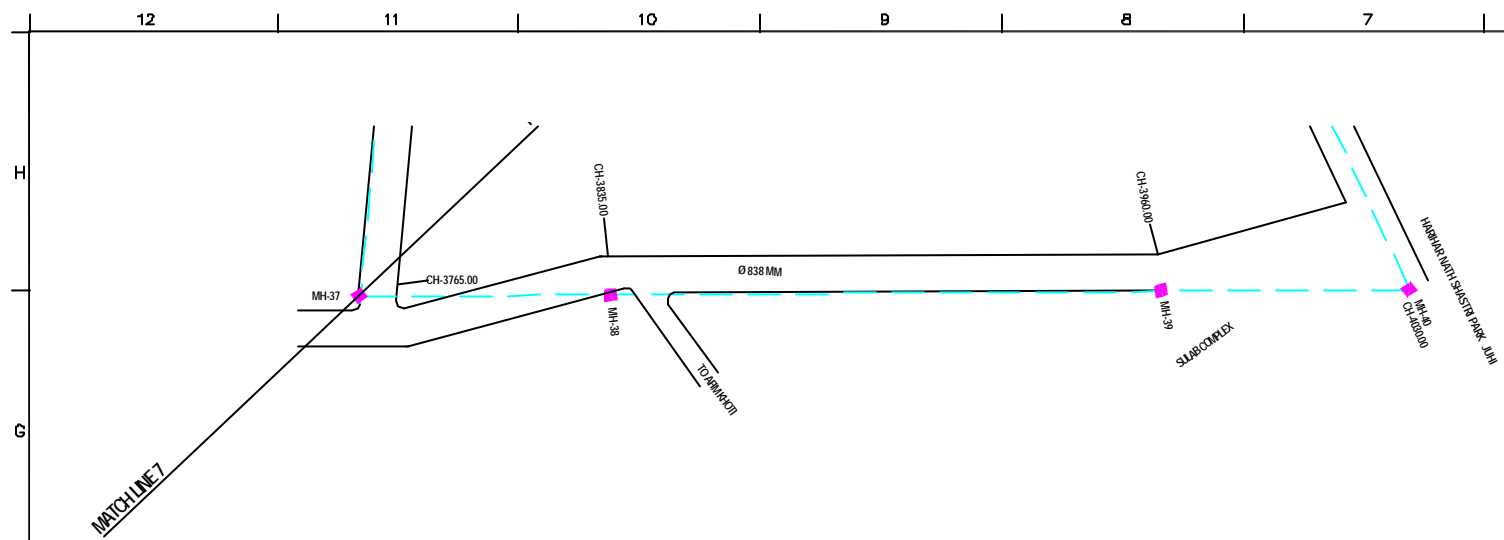
CHECKED BY: **JOHNEED KHAN**  
 APPROVED BY: **V.N.SCHTAKKE**  
 DRAWN: **R.D.METRE**  
 DESIGNED: **SCALE AS SHOWN**  
 SURVEYED: **VENTEC ENGR. DATE 19-11-2004**



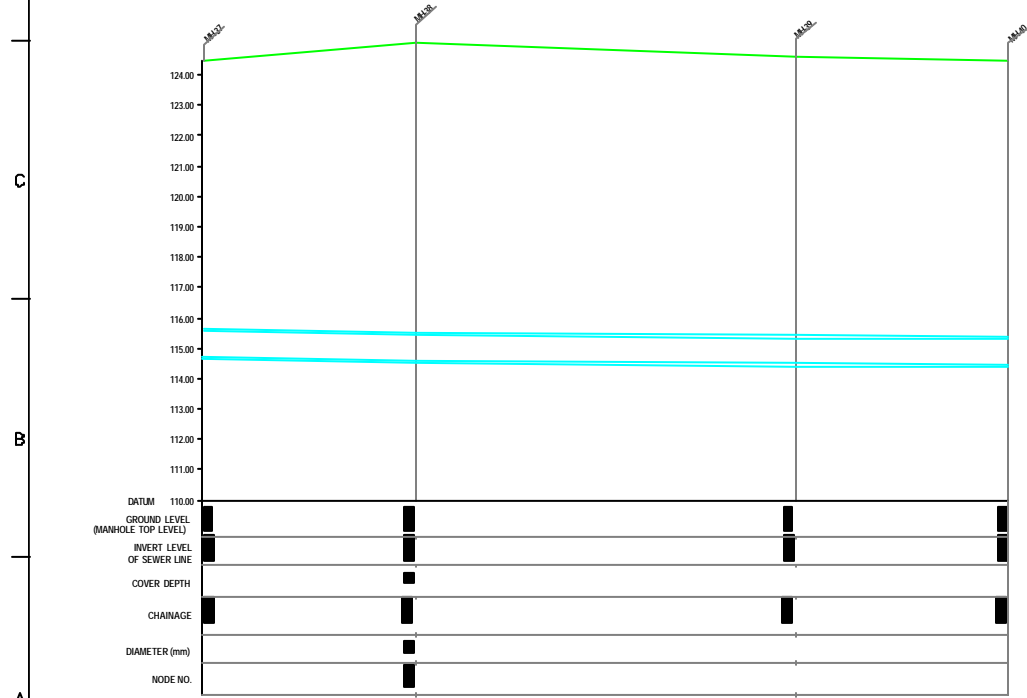
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF MANHOLE SURVEY FORM CHINYOT BHAVAN GOVIND NAGAR TO HARIHAR NATH SHASHTRI PARK JUHI (SHEET 7/8)

**DRAWING NO.** KAN-PP-CHM-7  
**SER. NO.** 124



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 CUMBER          |  |
| MOSQUE               |  |
| SPOT LEVEL           |  |
| NALLA                |  |
| TEMPORARY BENCH MARK |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |

|                          |   |   |   |   |   |
|--------------------------|---|---|---|---|---|
| INST.                    |   |   |   |   |   |
| ELED.                    |   |   |   |   |   |
| MECH.                    |   |   |   |   |   |
| STRA.                    |   |   |   |   |   |
| CIVIL                    |   |   |   |   |   |
| 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**  
 DESIGNED: **SCALE AS SHOWN**  
 SURVEYED: **VENTEC ENGR. DATE 18-11-2004**

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM BHASKAR 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 FORM CHINYOT BHAVAN GOVIND NAGAR TO HARIHAR NATH SHASHTRI PARK JUHI (SHEET 8/8)

DRAWING NO. **KAN-PP-CHM-8** SR. NO. **125**

12 11 10 9 8 7 6 5 4 3 2 1



**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
- RAILWAY LINE
- WIRE HOLE
- ELECTRICAL POLE
- PLOT BOUNDARY
- TEMPLE
- BRIDGE / CULVERT
- ROAD CENTER
- WDSQUE
- SPOT LEVEL
- NALLA
- TEMPORARY BENCH MARK TBM-117.700 M.
- MANHOLE TOP COVER

**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-KEY-1
- 4) DATCHMENT AREA KAN-CAN-02-1

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELCD.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRU.    |   |   |   |   |   |
| CIVL.    |   |   |   |   |   |
| 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    |           | DATE         | 19-11-2004 |

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTI ENGINEERING INTERNATIONAL CO., LTD.  
 SIVS SIVS PRAKASHI LIMITED

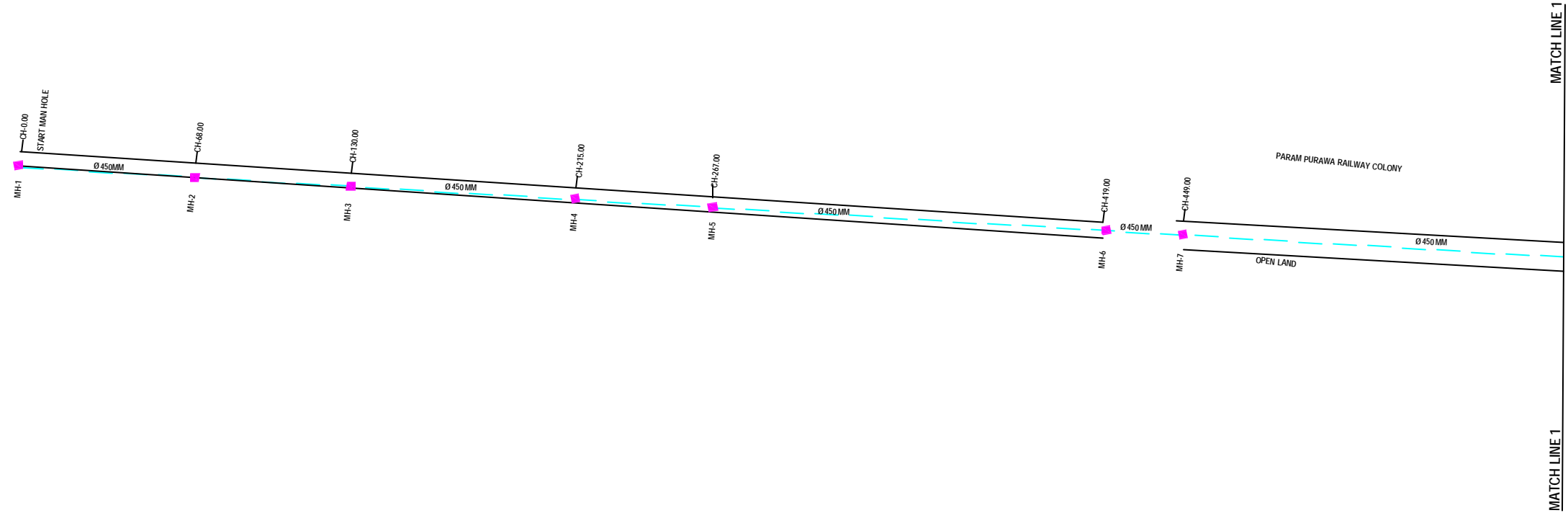
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF MANHOLE SURVEY FROM ISRARUDDIN CLINIC PARAM PURWA JUHI ALONG RLY. COLONY TO HARIHAR NATH SHAHSRTI PARK (MEETING POINT 33" SEWER LINE) (SHEET 1/2)

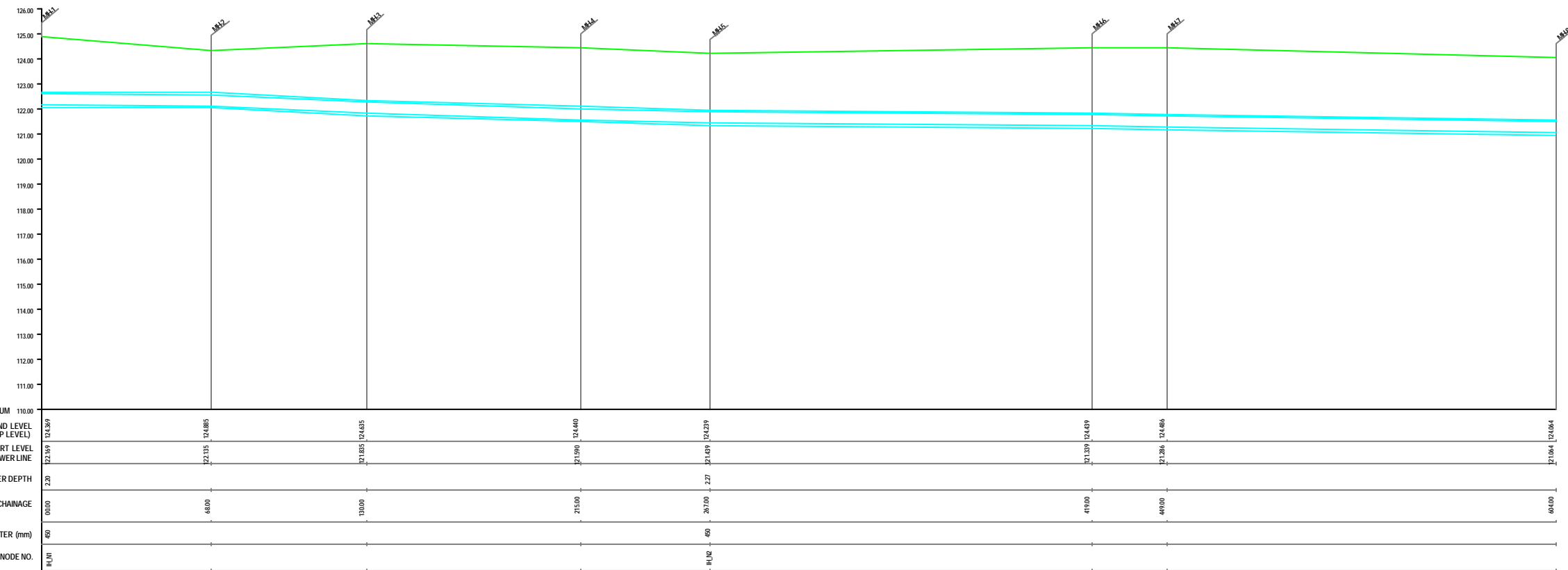
**DRAWING NO.**  
 KAN-PPM-IH-1

**SR. NO**  
 126

H  
G  
F  
E  
D  
C  
B  
A



**PLAN**  
 SCALE= 1 : 1000



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

12 11 10 9 8 7 6 5 4 3 2 1





**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  |  |
| RAILWAY LINE         |  |
| WIRE HOLE            |  |
| ELECTRICAL POLE      |  |
| PLOT BOUNDARY        |  |
| BUILDING             |  |
| TEMPLE               |  |
| BRIDGE / CULVERT     |  |
| ROAD CENTER          |  |
| WINDSUE              |  |
| SPOT LEVEL           |  |
| NALLA                |  |
| TEMPORARY BENCH MARK |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |

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

|             |              |              |            |
|-------------|--------------|--------------|------------|
| CHECKED BY: |              | APPROVED BY: |            |
| JUNAED KHAN |              | V.N.SCHTAKKE |            |
| DRAWN       | R.D.METRE    | SCALE        | AS SHOWN   |
| DESIGNED    |              | DATE         | 19-11-2004 |
| BURVEYED    | KUMAR SURVEY |              |            |

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SIVAS SIVASA PRAKASHI LIMITED

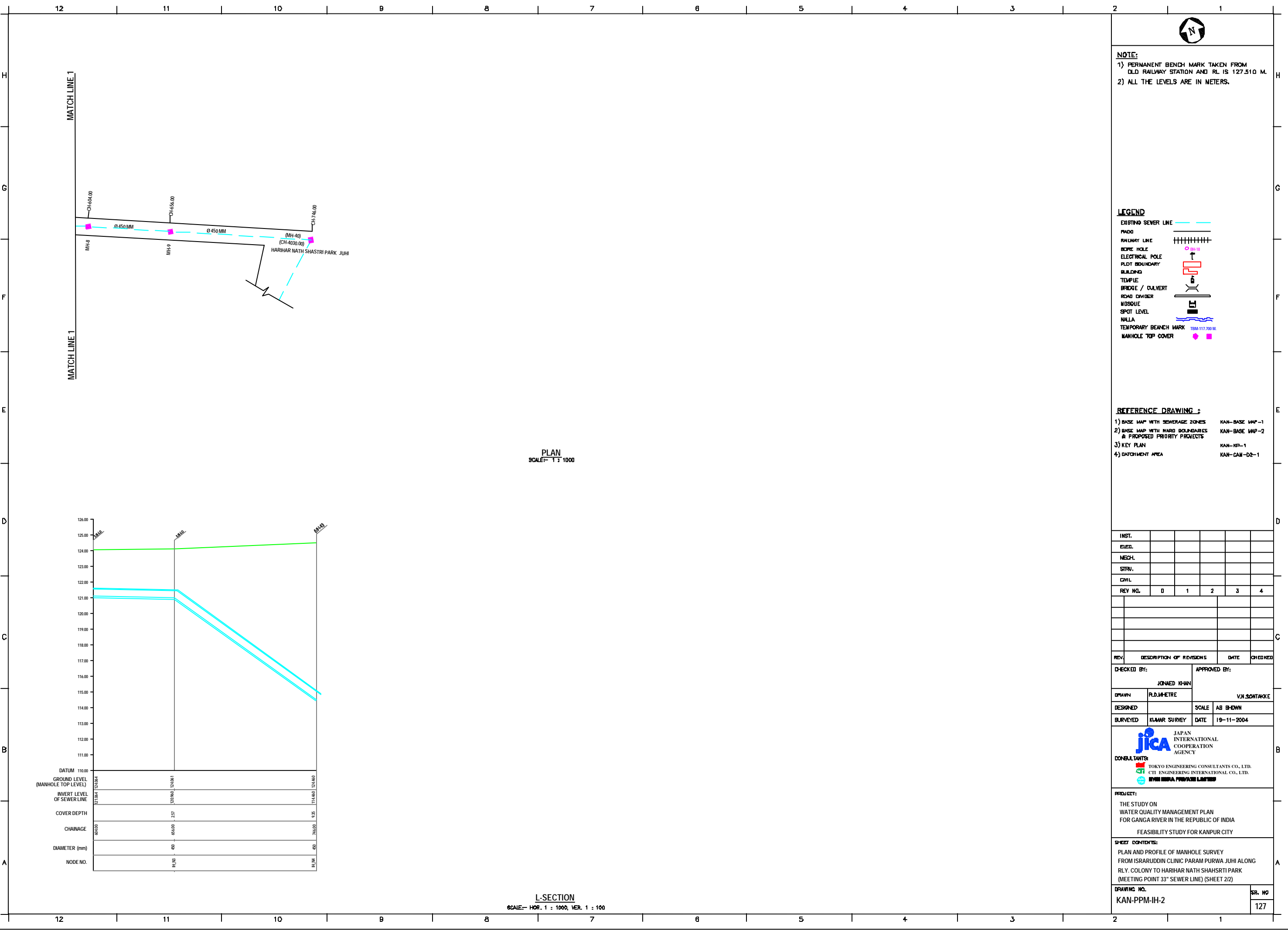
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

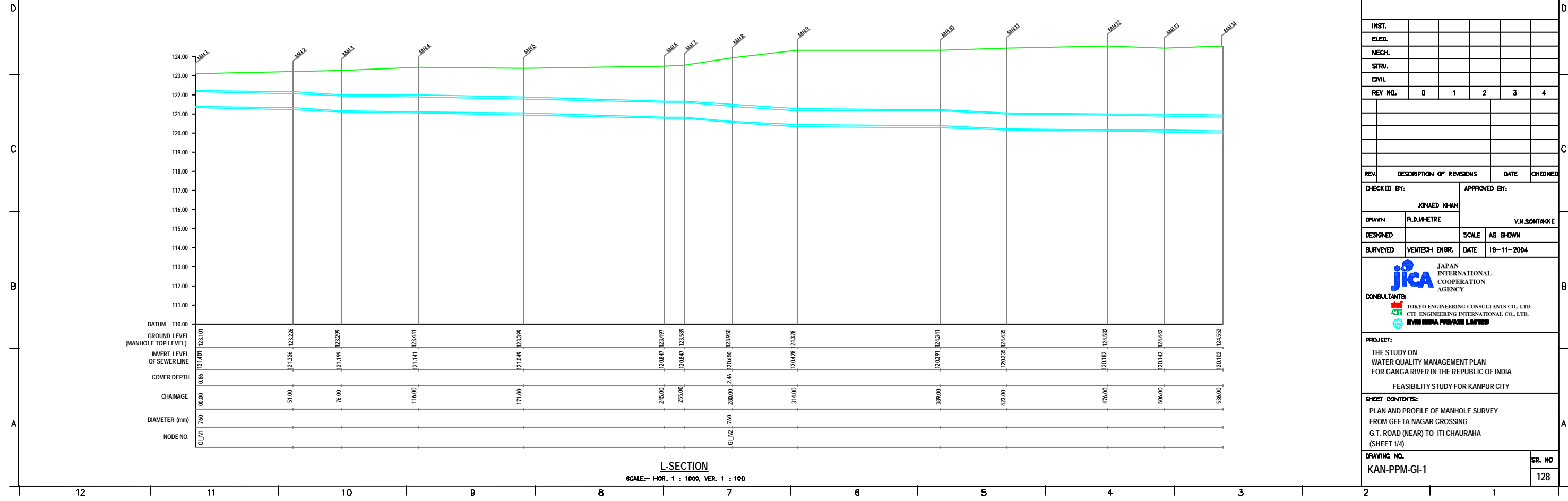
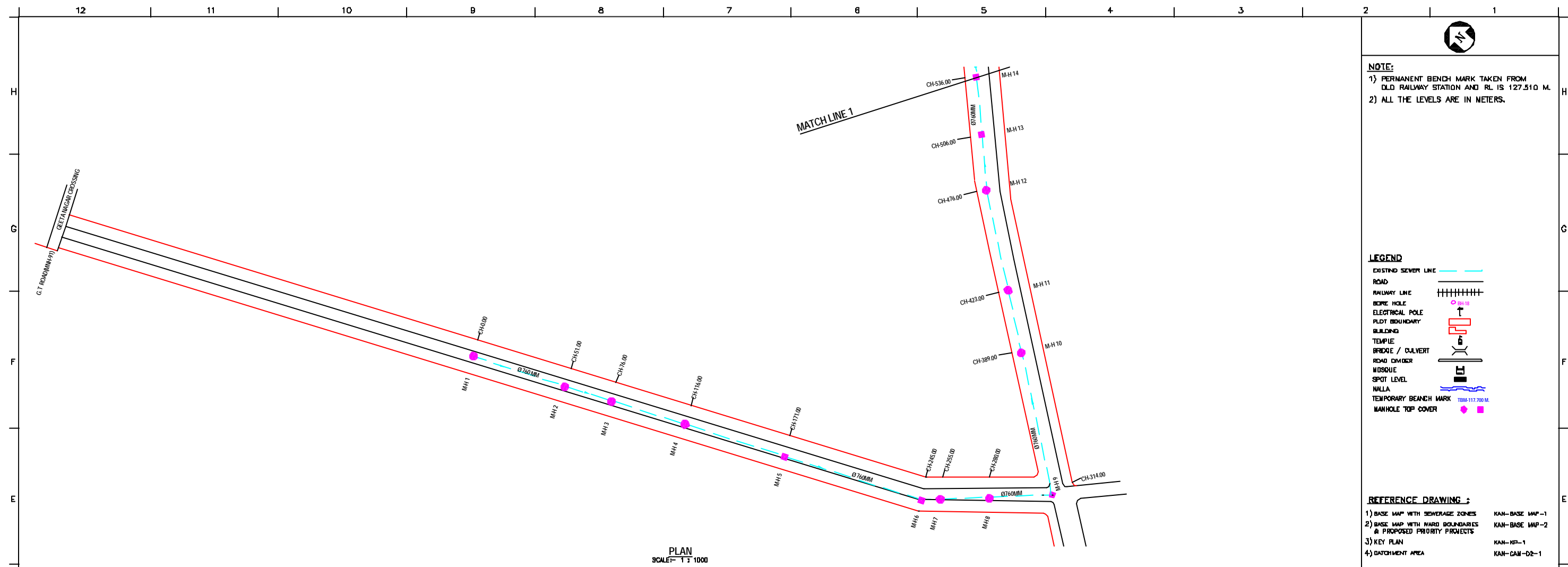
**SHEET CONTENTS:**  
 PLAN AND PROFILE OF MANHOLE SURVEY FROM ISRARUDDIN CLINIC PARAM PURWA JUHI ALONG RLY. COLONY TO HARIHAR NATH SHAHSRTI PARK (MEETING POINT 33" SEWER LINE) (SHEET 2/2)

|              |         |
|--------------|---------|
| DRAWING NO.  | SR. NO. |
| KAN-PPM-IH-2 | 127     |

**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 CUMBER
  - INDUSQUE
  - SPOT LEVEL
  - NALLA
  - TEMPORARY BENCH MARK
  - MANHOLE TOP COVER

- 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-KEY-1
  - 4) DATCHMENT AREA KAN-CAN-02-1

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| DESD.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRV.    |   |   |   |   |   |
| CIVL.    |   |   |   |   |   |
| 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. MATHRE              | SCALE                      | AS SHOWN   |
| DESIGNED                |                          | DATE                       | 19-11-2004 |

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SIVS SIVS 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 GEETA NAGAR CROSSING G.T. ROAD (NEAR) TO ITI CHAURAHA (SHEET 1/4)

**DRAWING NO.** KAN-PPM-GI-1  
**SR. NO.** 128



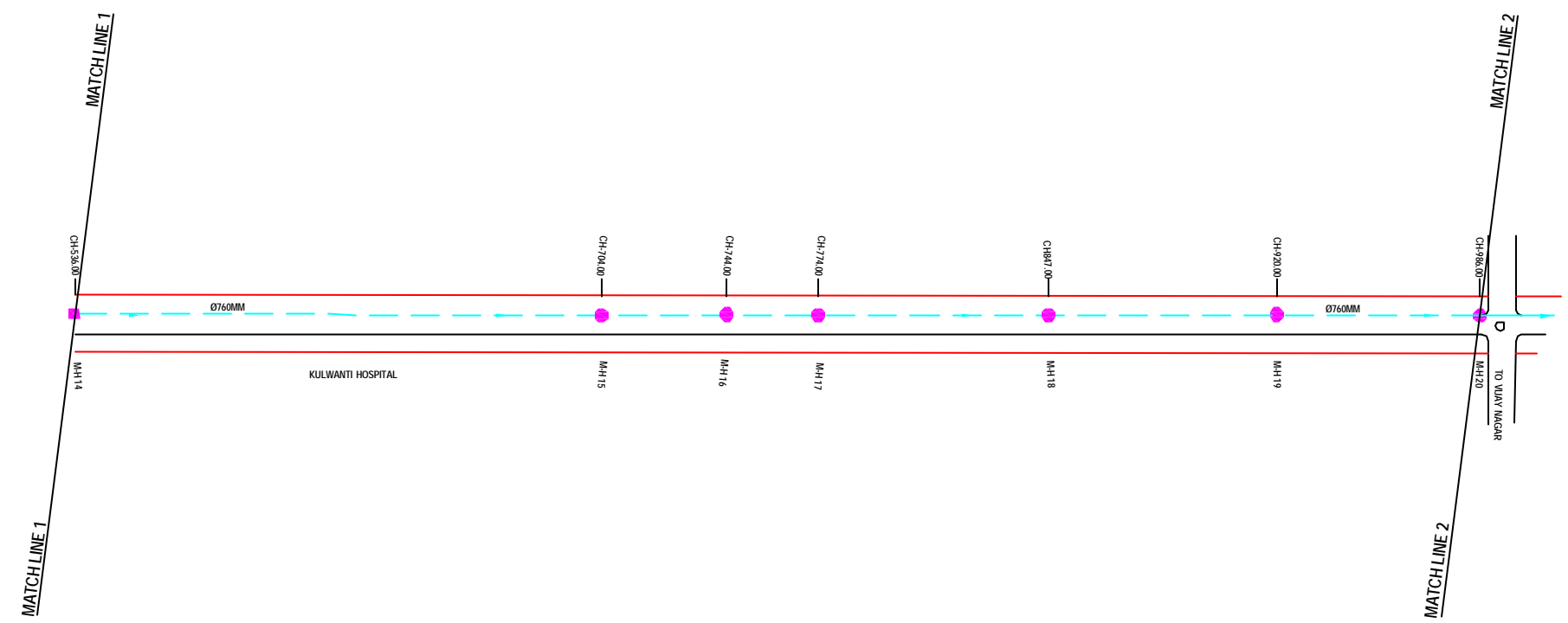
**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

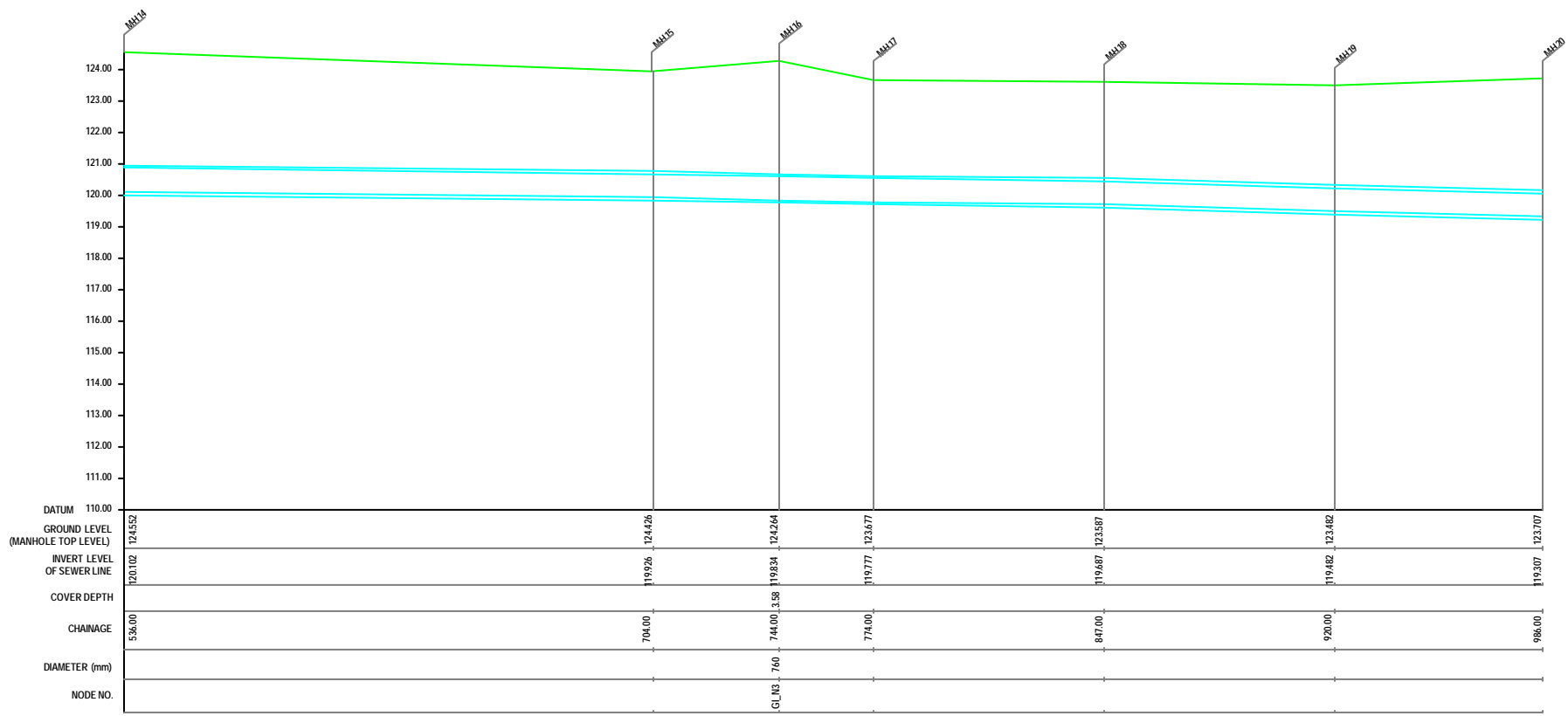
|                      |  |
|----------------------|--|
| EXISTING SEWER LINE  |  |
| ROAD                 |  |
| RAILWAY LINE         |  |
| BORE HOLE            |  |
| ELECTRICAL POLE      |  |
| PLOT BOUNDARY        |  |
| BUILDING             |  |
| TEMPLE               |  |
| BRIDGE / CULVERT     |  |
| ROAD CUMBER          |  |
| MOSQUE               |  |
| SPOT LEVEL           |  |
| NALLA                |  |
| TEMPORARY BENCH MARK |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |



**PLAN**  
SCALE-- 1 : 1000



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

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELCD.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRA.    |   |   |   |   |   |
| CWL.     |   |   |   |   |   |
| REV. NO. | 0 | 1 | 2 | 3 | 4 |

|                                  |                          |       |            |
|----------------------------------|--------------------------|-------|------------|
| REV.                             | DESCRIPTION OF REVISIONS | DATE  | CHECKED    |
| CHECKED BY: <b>JOHNAED KHAN</b>  |                          |       |            |
| APPROVED BY: <b>V.N.SCHTAKKE</b> |                          |       |            |
| DRAWN                            | R.D.METRE                | SCALE | AS SHOWN   |
| DESIGNED                         |                          | DATE  | 18-11-2004 |
| BURVEYED                         | VENTECH ENGR.            |       |            |

**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 MANHOLE SURVEY FROM GEETA NAGAR CROSSING G.T. ROAD (NEAR) TO ITI CHAURAHA (SHEET 2/4)



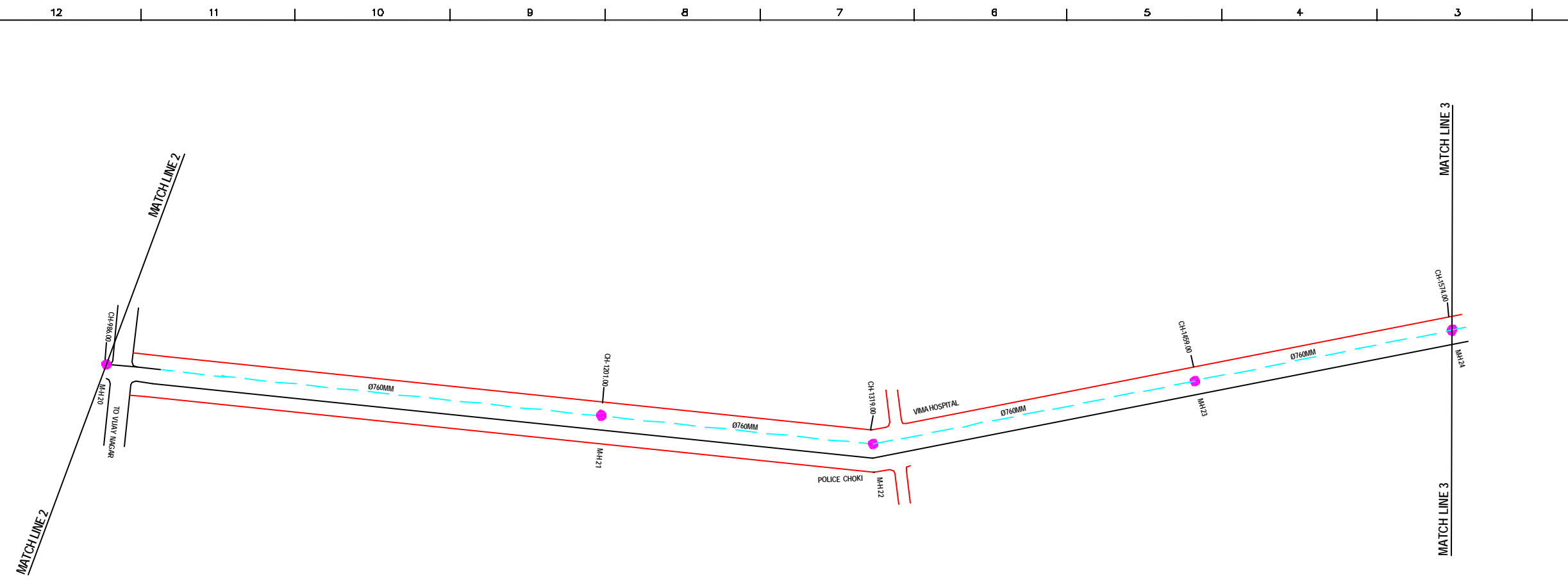
**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM OLD RAILWAY STATION AND RL IS 127.510 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

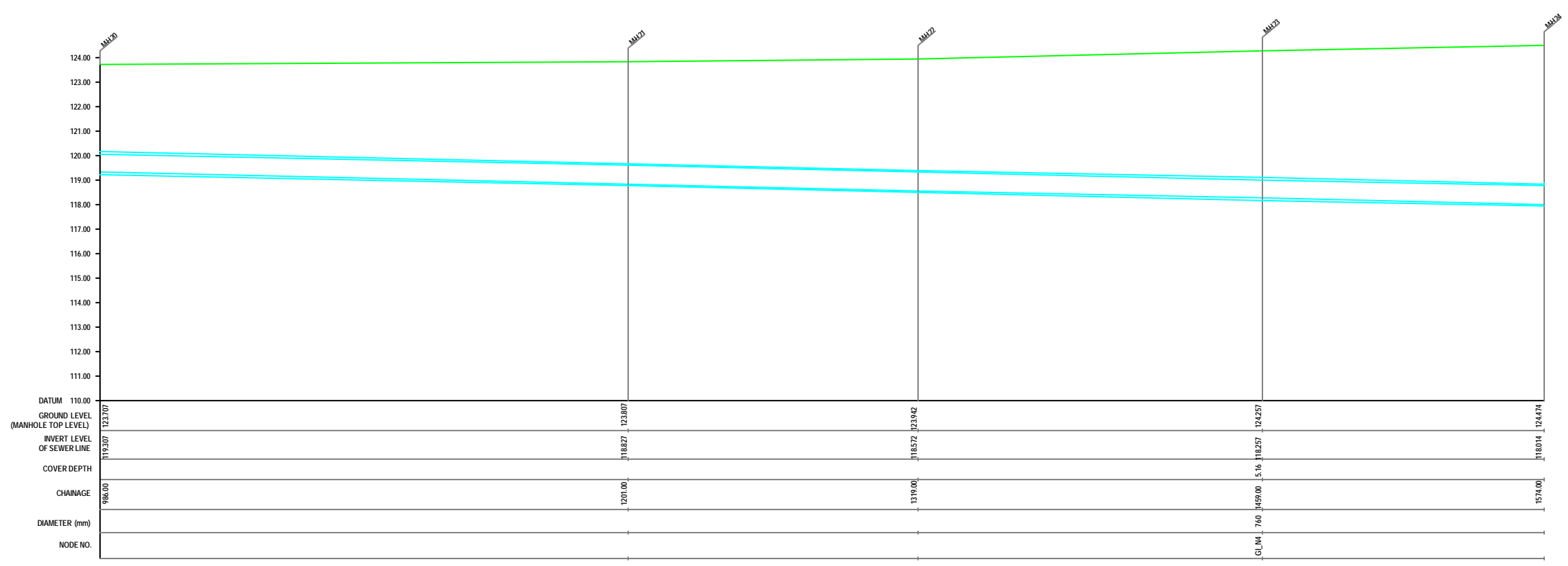
|                      |  |
|----------------------|--|
| EXISTING SEWER LINE  |  |
| ROAD                 |  |
| RAILWAY LINE         |  |
| BORE HOLE            |  |
| ELECTRICAL POLE      |  |
| PLDING BOUNDARY      |  |
| TEMPLE               |  |
| BRIDGE / CULVERT     |  |
| ROAD CUMBER          |  |
| MOSQUE               |  |
| SPOT LEVEL           |  |
| NALLA                |  |
| TEMPORARY BENCH MARK |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |



**PLAN**  
SCALE= 1 : 1000



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

|                          |   |   |   |   |   |
|--------------------------|---|---|---|---|---|
| INST.                    |   |   |   |   |   |
| ELCD.                    |   |   |   |   |   |
| MECH.                    |   |   |   |   |   |
| STRA.                    |   |   |   |   |   |
| CWL                      |   |   |   |   |   |
| 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  
**DESIGNED:** SCALE AS SHOWN  
**SURVEYED:** VENTECH ENGR. DATE 19-11-2004



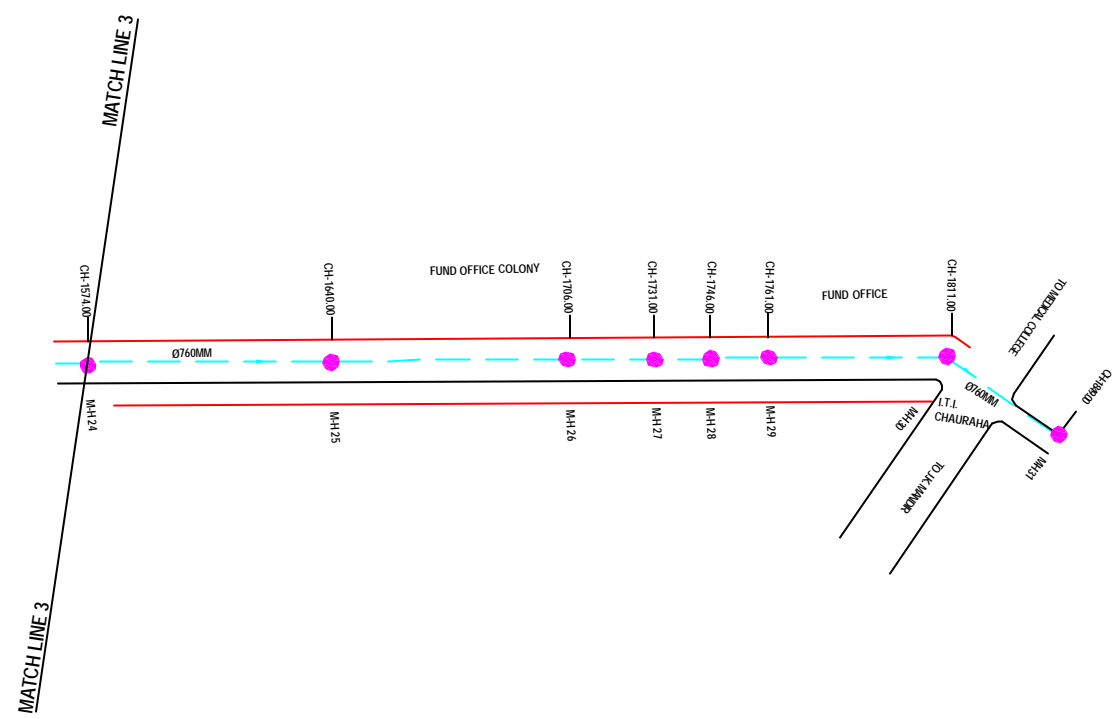
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE OF MANHOLE SURVEY FROM GEETA NAGAR CROSSING G.T. ROAD (NEAR) TO ITI CHAURAHA (SHEET 3/4)

**DRAWING NO.** KAN-PPM-GI-3  
**SR. NO.** 130



**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 |  |
| MANHOLE TOP COVER    |  |

**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-KEY-1      |
| 4) DATCHMENT AREA                                             | KAN-CAN-02-1   |

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

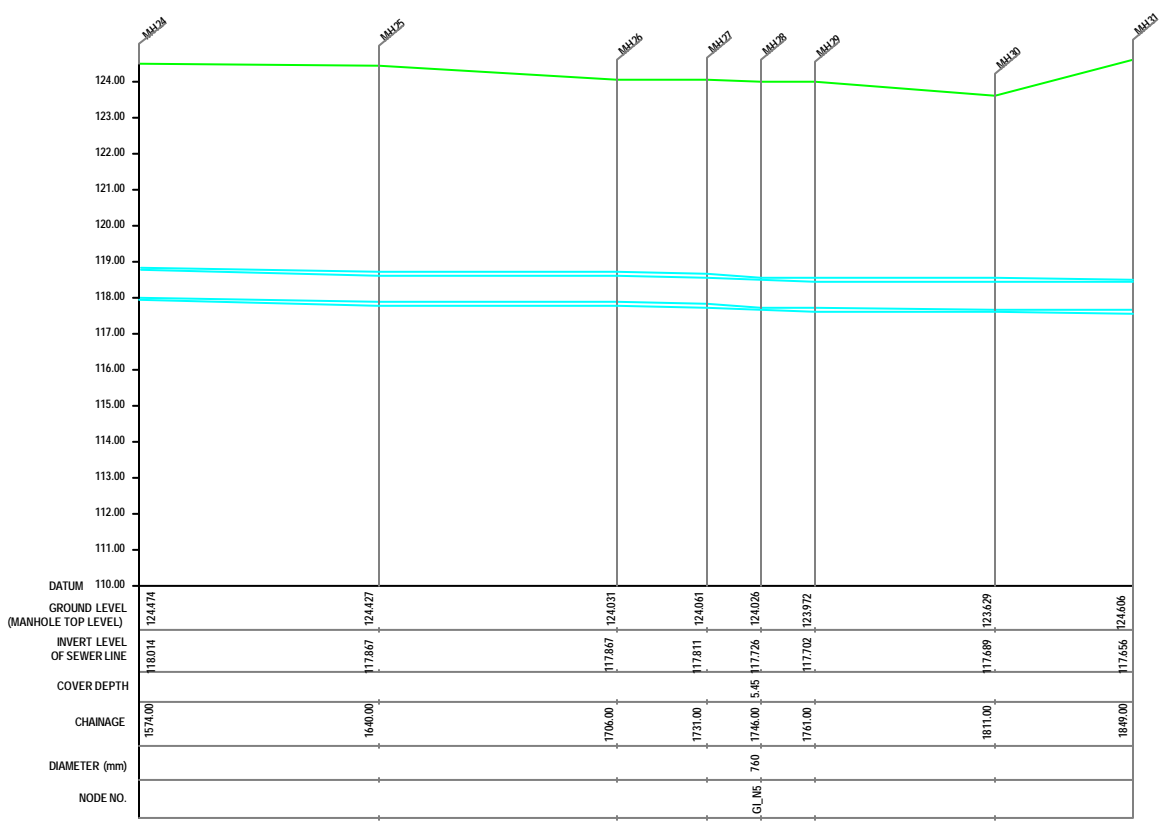
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|---------------------------|--------------------------|-------|------------|
| REV.                      | DESCRIPTION OF REVISIONS | DATE  | CHECKED    |
| CHECKED BY: JUNAED KHAN   |                          |       |            |
| APPROVED BY: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

**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 MANHOLE SURVEY FROM GEETA NAGAR CROSSING G.T. ROAD (NEAR) TO ITI CHAURAHA (SHEET 4/4)

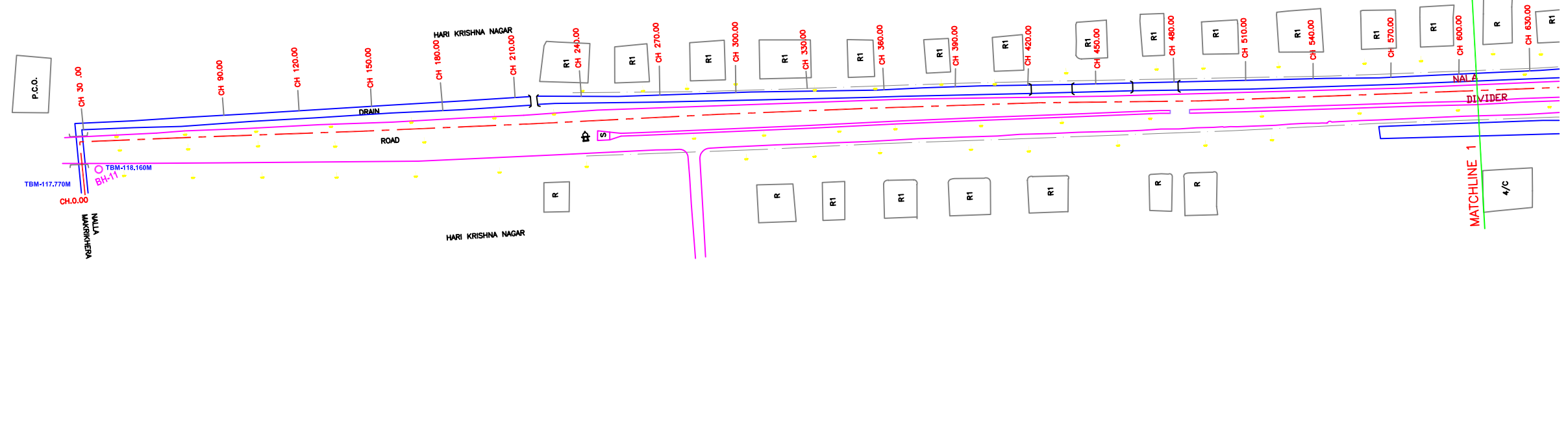
**DRAWING NO.** KAN-PPM-GI-4  
**SR. NO.** 131



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



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
 2) ALL THE LEVELS ARE IN METERS.



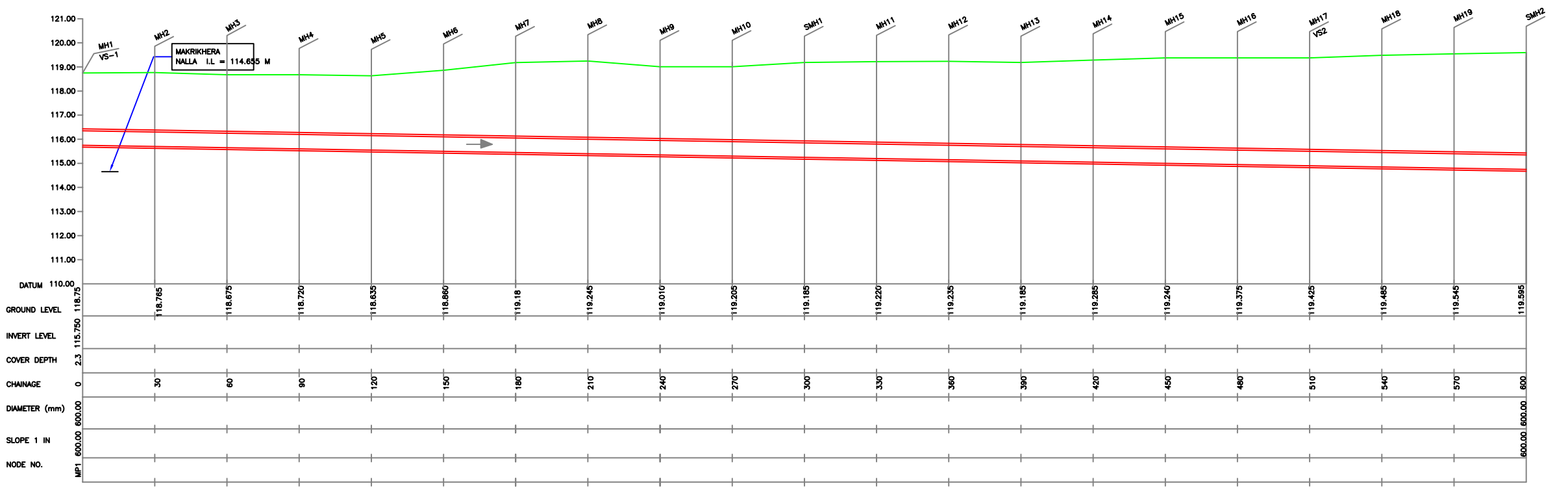
**PLAN**

SCALE:- 1 : 1000

**LEGEND**

|                      |                |
|----------------------|----------------|
| PROPOSED SEWER LINE  | ---            |
| RISING MAIN          | ---            |
| ROAD                 | ---            |
| RAILWAY LINE         | ---            |
| BORE HOLE            | ○ BH-18        |
| ELECTRICAL POLE      | ↑              |
| PLOT BOUNDARY        | ---            |
| BUILDING             | ---            |
| TEMPLE               | ---            |
| BRIDGE / CULVERT     | ---            |
| ROAD DIVIDER         | ---            |
| MOSQUE               | ---            |
| SPOT LEVEL           | 115.00         |
| NALLA                | ---            |
| TEMPORARY BENCH MARK | TBM-117.700 M. |
| ORDINARY MANHOLE     | MH             |
| SCRAPPER 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  
 4) CATCHMENT AREA OF DISTRICT-III KAN-CA-03-1



**L-SECTION**

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

|         |   |   |   |   |   |
|---------|---|---|---|---|---|
| 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: R.D.PARAB         | SCALE: AS SHOWN  |                           |  |
| DESIGNED: M.D.NAGVEKAR   | DATE: 28-12-2004 |                           |  |
| SURVEYED: KUMAR SURVEY   |                  |                           |  |

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

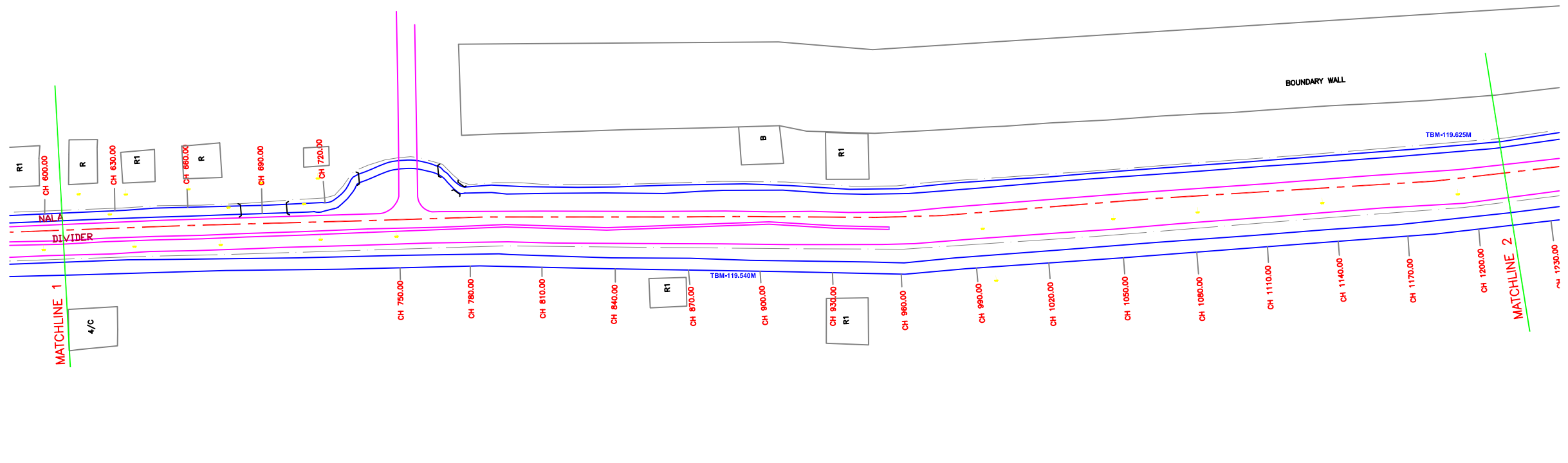
PROJECT: THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

SHEET CONTENTS: PLAN & PROFILE FROM MAKRIKHERA NALA TO LAKHANPUR SPS (SHEET 1/5)

12 11 10 9 8 7 6 5 4 3 2 1



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
 2) ALL THE LEVELS ARE IN METERS.

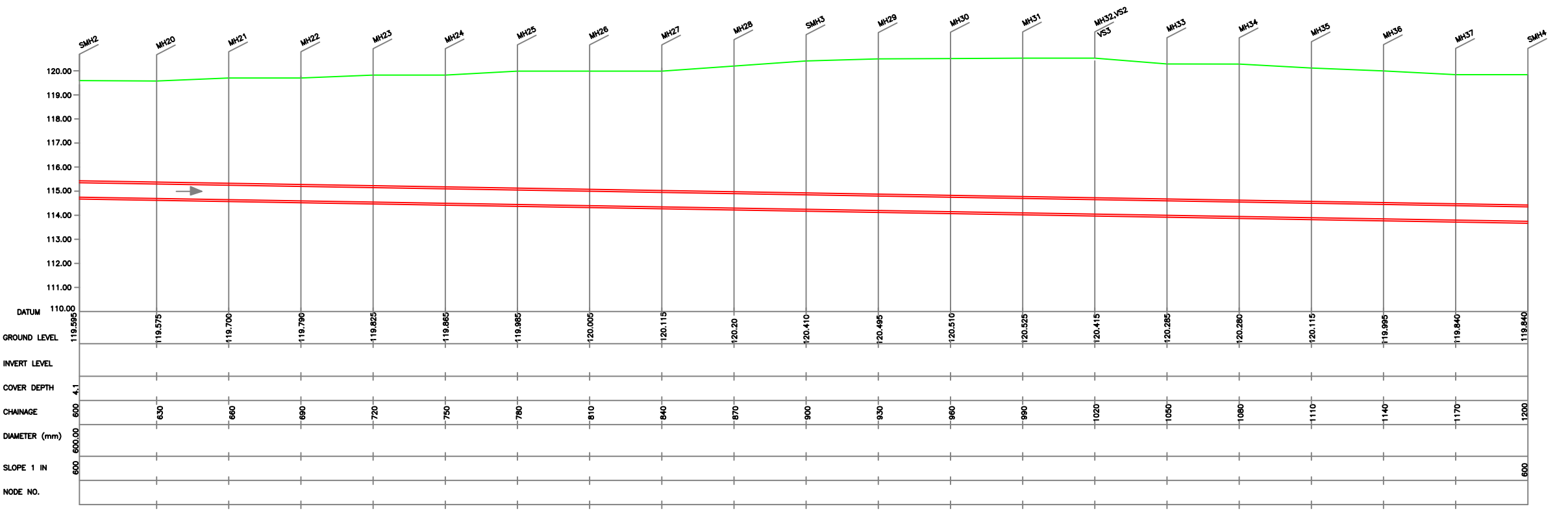


**PLAN**  
 SCALE:- 1 : 1000

**LEGEND**

|                      |                |
|----------------------|----------------|
| PROPOSED SEWER LINE  |                |
| RISING MAIN          |                |
| ROAD                 |                |
| RAILWAY LINE         |                |
| BORE HOLE            |                |
| ELECTRICAL POLE      |                |
| PLOT BOUNDARY        |                |
| BUILDING             |                |
| TEMPLE               |                |
| BRIDGE / CULVERT     |                |
| ROAD DIVIDER         |                |
| MOSQUE               |                |
| SPOT LEVEL           | 115.00         |
| NALLA                |                |
| TEMPORARY BENCH MARK | TBM-117.700 M. |
| ORDINARY MANHOLE     | MH             |
| SCRAPPER 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  
 4) CATCHMENT AREA OF DISTRICT-III KAN-CA-03-1



**L-SECTION**  
 SCALE:- HOR. 1 : 1000, VER. 1 : 10

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

| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|------|--------------------------|------|---------|
|      |                          |      |         |
|      |                          |      |         |

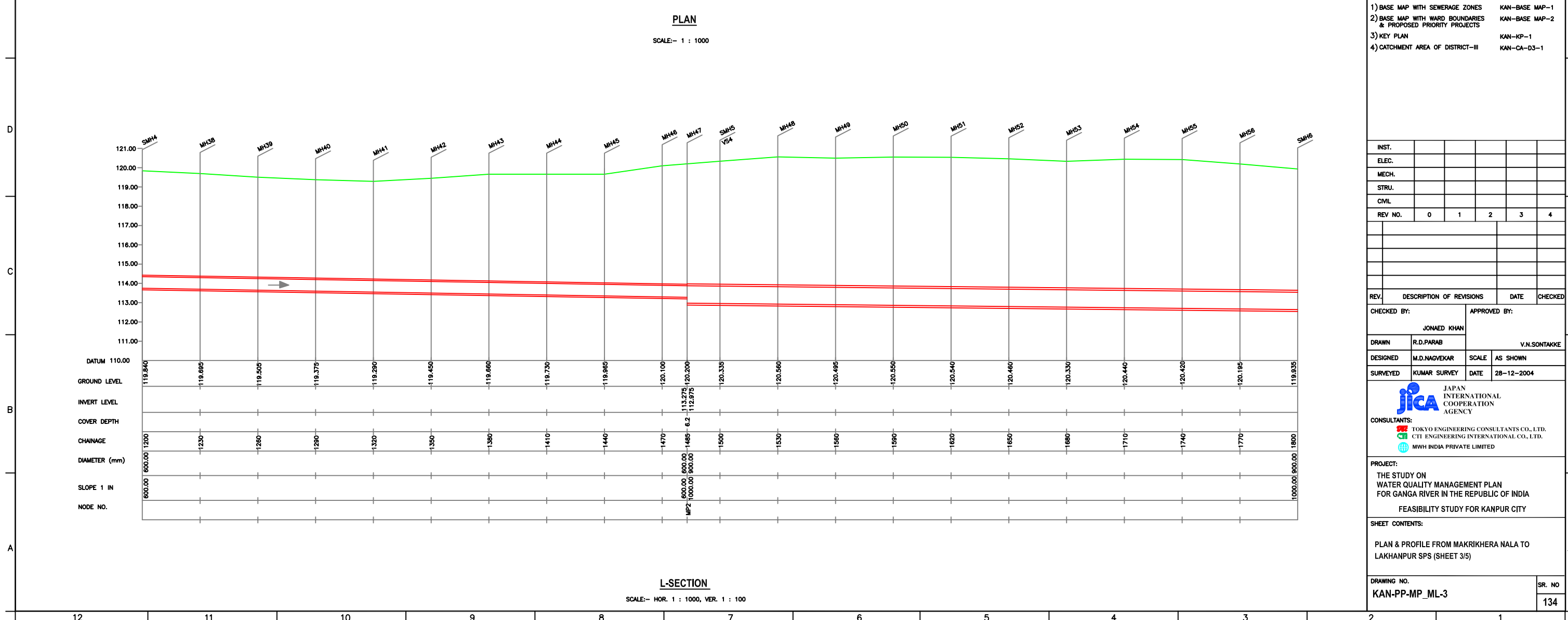
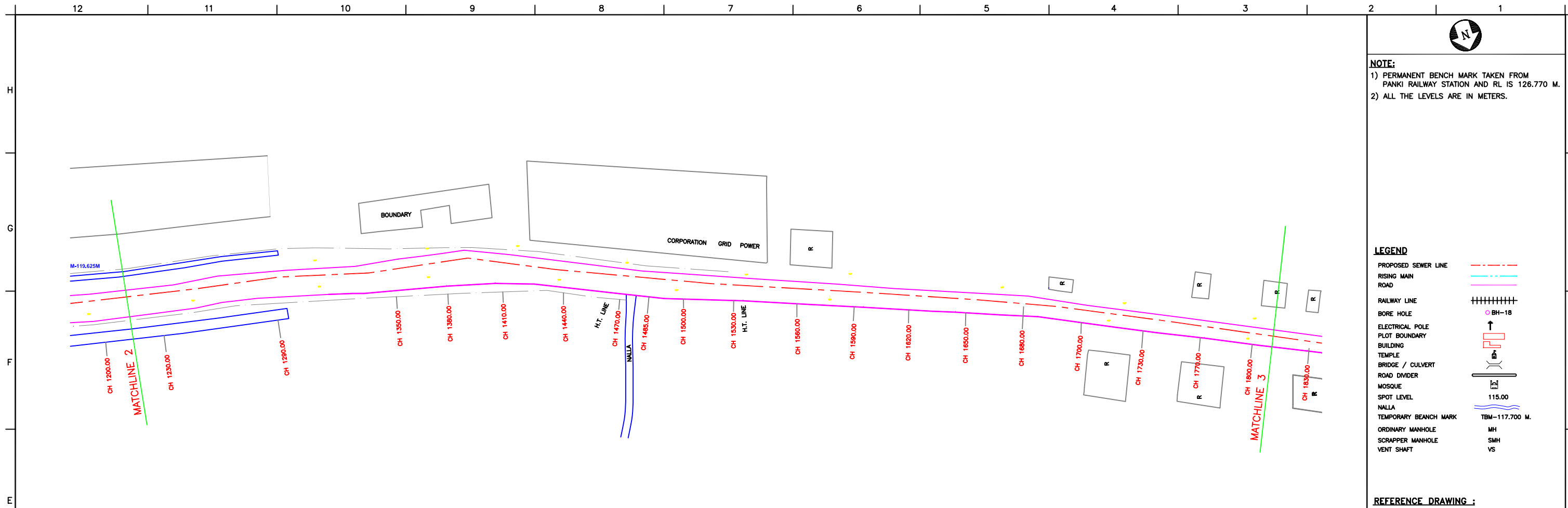
|                          |                  |                                                                                                                                |  |
|--------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------|--|
| CHECKED BY: JONAEED KHAN |                  | APPROVED BY: V.N.SONTAKKE                                                                                                      |  |
| DRAWN: R.D.PARAB         | SCALE: AS SHOWN  | DESIGNED: M.D.NAGVEKAR                                                                                                         |  |
| SURVEYED: KUMAR SURVEY   | DATE: 28-12-2004 | CONSULTANTS: JICA, 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 & PROFILE FROM MAKRIKHERA NALA TO LAKHANPUR SPS (SHEET 2/5)

|                            |             |
|----------------------------|-------------|
| DRAWING NO. KAN-PP-MP_ML-2 | SR. NO. 133 |
|----------------------------|-------------|

12 11 10 9 8 7 6 5 4 3 2 1



**NOTE:**  
1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                      |                |
|----------------------|----------------|
| PROPOSED SEWER LINE  | ---            |
| RIISING MAIN ROAD    | ---            |
| RAILWAY LINE         | +              |
| BORE HOLE            | ○ BH-18        |
| ELECTRICAL POLE      | ↑              |
| PLOT BOUNDARY        | ---            |
| BUILDING             | □              |
| TEMPLE               | ⊕              |
| BRIDGE / CULVERT     | ⌒              |
| ROAD DIVIDER         | ---            |
| MOSQUE               | ⊞              |
| SPOT LEVEL           | 115.00         |
| NALLA                | ---            |
| TEMPORARY BENCH MARK | TBM-117.700 M. |
| ORDINARY MANHOLE     | MH             |
| SCRAPPER 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  
4) CATCHMENT AREA OF DISTRICT-III KAN-CA-03-1

|                         |                          |   |                           |      |         |
|-------------------------|--------------------------|---|---------------------------|------|---------|
| 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.PARAB                |   | SCALE AS SHOWN            |      |         |
| DESIGNED                | M.D.NAGVEKAR             |   | DATE 28-12-2004           |      |         |
| SURVEYED                | KUMAR SURVEY             |   |                           |      |         |

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

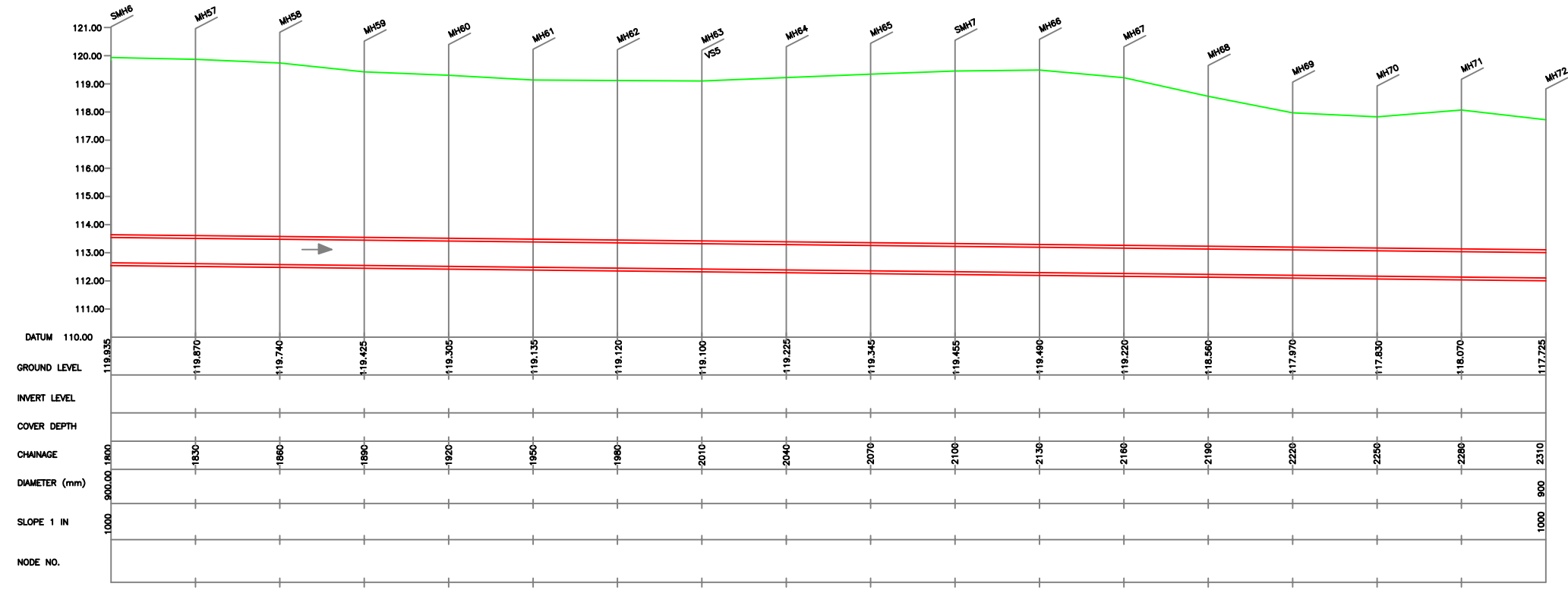
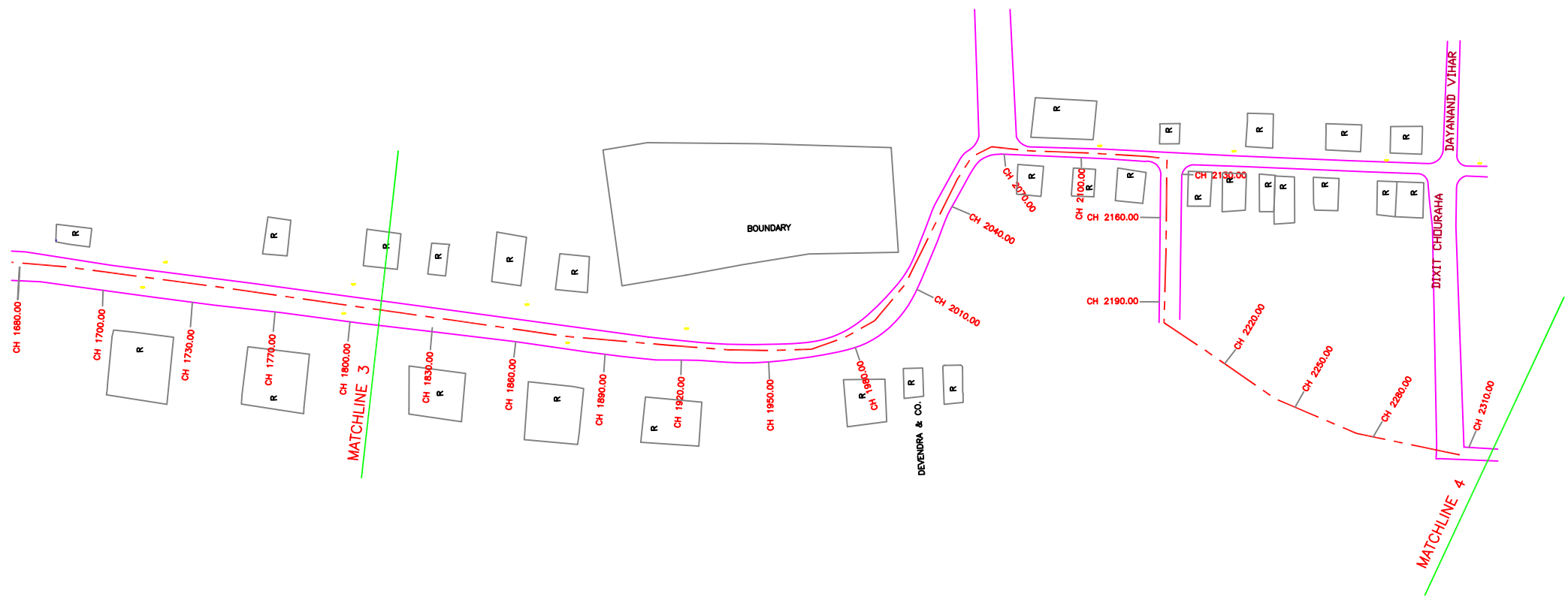
**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
PLAN & PROFILE FROM MAKRIKHERA NALA TO LAKHANPUR SPS (SHEET 3/5)

**DRAWING NO.**  
KAN-PP-MP\_ML-3

**SR. NO**  
134





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



**NOTE:**  
1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                      |                |
|----------------------|----------------|
| PROPOSED SEWER LINE  | ---            |
| RISING MAIN          | ---            |
| ROAD                 | ---            |
| RAILWAY LINE         |                |
| BORE HOLE            | ○ BH-18        |
| ELECTRICAL POLE      | ↑              |
| PLOT BOUNDARY        | ---            |
| BUILDING             | □              |
| TEMPLE               | □              |
| BRIDGE / CULVERT     | ---            |
| ROAD DIVIDER         | ---            |
| MOSQUE               | ---            |
| SPOT LEVEL           | 115.00         |
| NALLA                | ---            |
| TEMPORARY BENCH MARK | TBM-117.700 M. |
| ORDINARY MANHOLE     | MH             |
| SCRAPPER 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  
4) CATCHMENT AREA OF DISTRICT-III KAN-CA-03-1

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

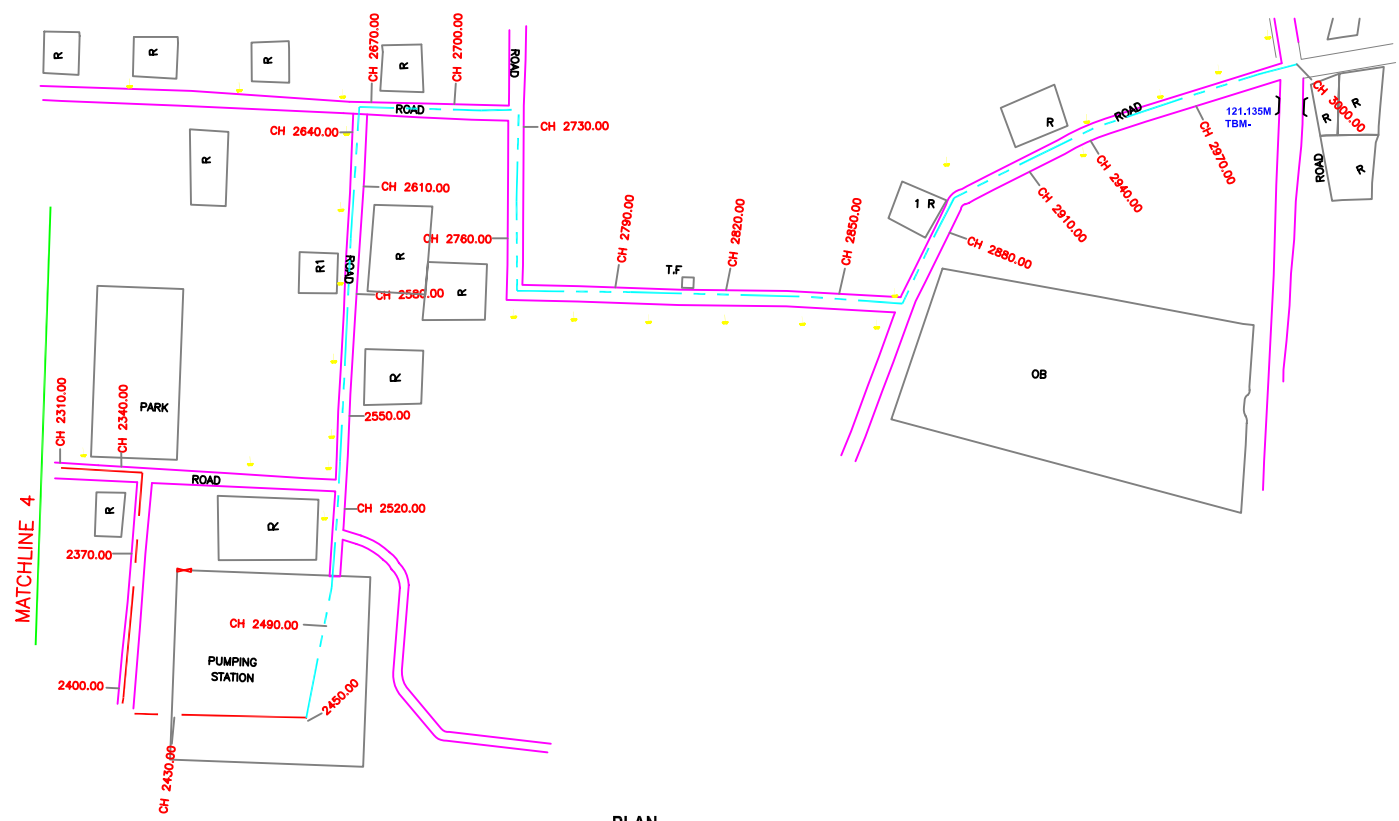
| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|------|--------------------------|------|---------|
|      |                          |      |         |
|      |                          |      |         |

|              |              |              |            |
|--------------|--------------|--------------|------------|
| CHECKED BY:  |              | APPROVED BY: |            |
| JONAEED KHAN |              | V.N.SONTAKKE |            |
| DRAWN        | R.D.PARAB    | SCALE        | AS SHOWN   |
| DESIGNED     | M.D.NAGVEKAR | DATE         | 28-12-2004 |
| SURVEYED     | KUMAR SURVEY |              |            |

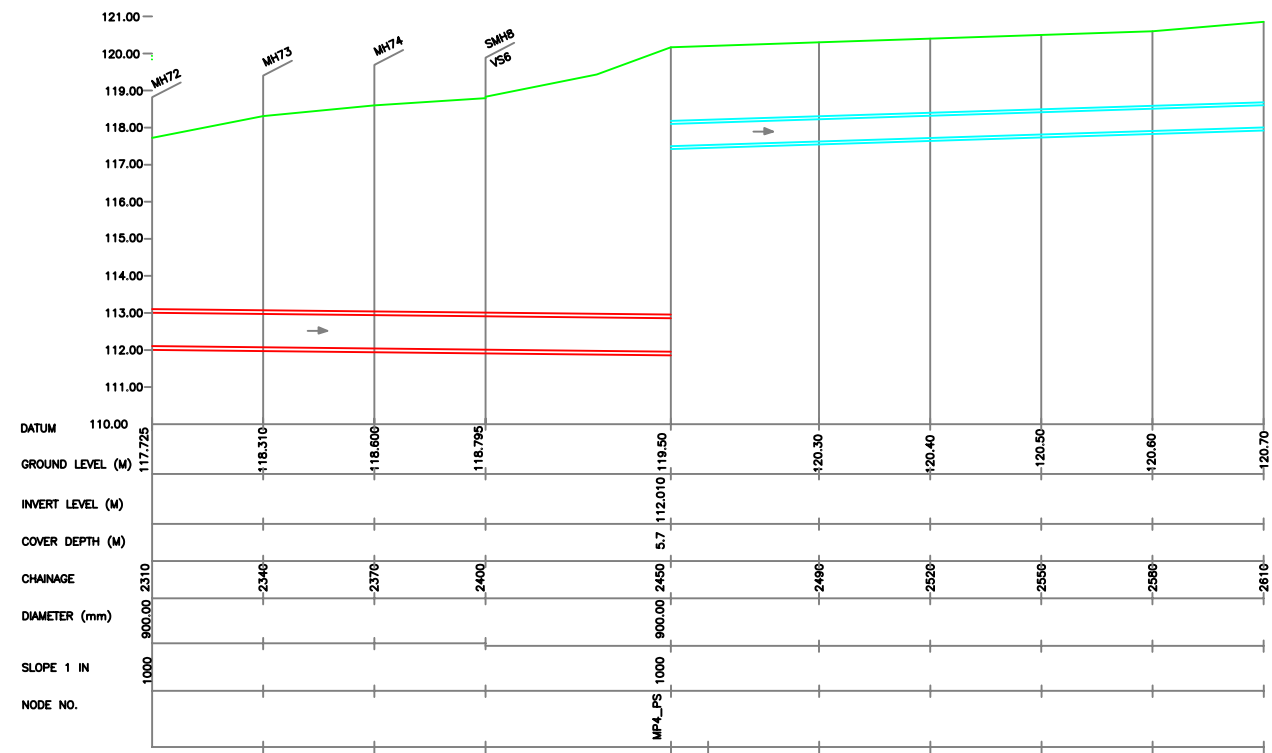
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
CONSULTANTS:  
TOKYO ENGINEERING CONSULTANTS CO., LTD.  
CTI ENGINEERING INTERNATIONAL CO., LTD.  
MWH INDIA PRIVATE LIMITED

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

**SHEET CONTENTS:**  
PLAN & PROFILE FROM MAKRIKHERA NALA TO LAKHANPUR SPS (SHEET 4/5)



**PLAN**  
SCALE:- 1 : 1000



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

**NOTE:**  
1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                      |                |
|----------------------|----------------|
| PROPOSED SEWER LINE  | ---            |
| RISING MAIN          | ---            |
| ROAD                 | ---            |
| RAILWAY LINE         |                |
| BORE HOLE            | ○ BH-18        |
| ELECTRICAL POLE      | ↑              |
| PLOT BOUNDARY        | ---            |
| BUILDING             | ---            |
| TEMPLE               | ---            |
| BRIDGE / CULVERT     | ---            |
| ROAD DIVIDER         | ---            |
| MOSQUE               | ---            |
| SPOT LEVEL           | 115.00         |
| NALLA                | ---            |
| TEMPORARY BENCH MARK | TBM-117.700 M. |
| ORDINARY MANHOLE     | MH             |
| SCRAPPER 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  
4) CATCHMENT AREA OF DISTRICT-III KAN-CA-03-1

|         |   |   |   |   |   |
|---------|---|---|---|---|---|
| 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.PARAB                | SCALE | AS SHOWN   |
| DESIGNED                  | M.D.NAGVEKAR             | DATE  | 28-12-2004 |
| SURVEYED                  | KUMAR SURVEY             |       |            |

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

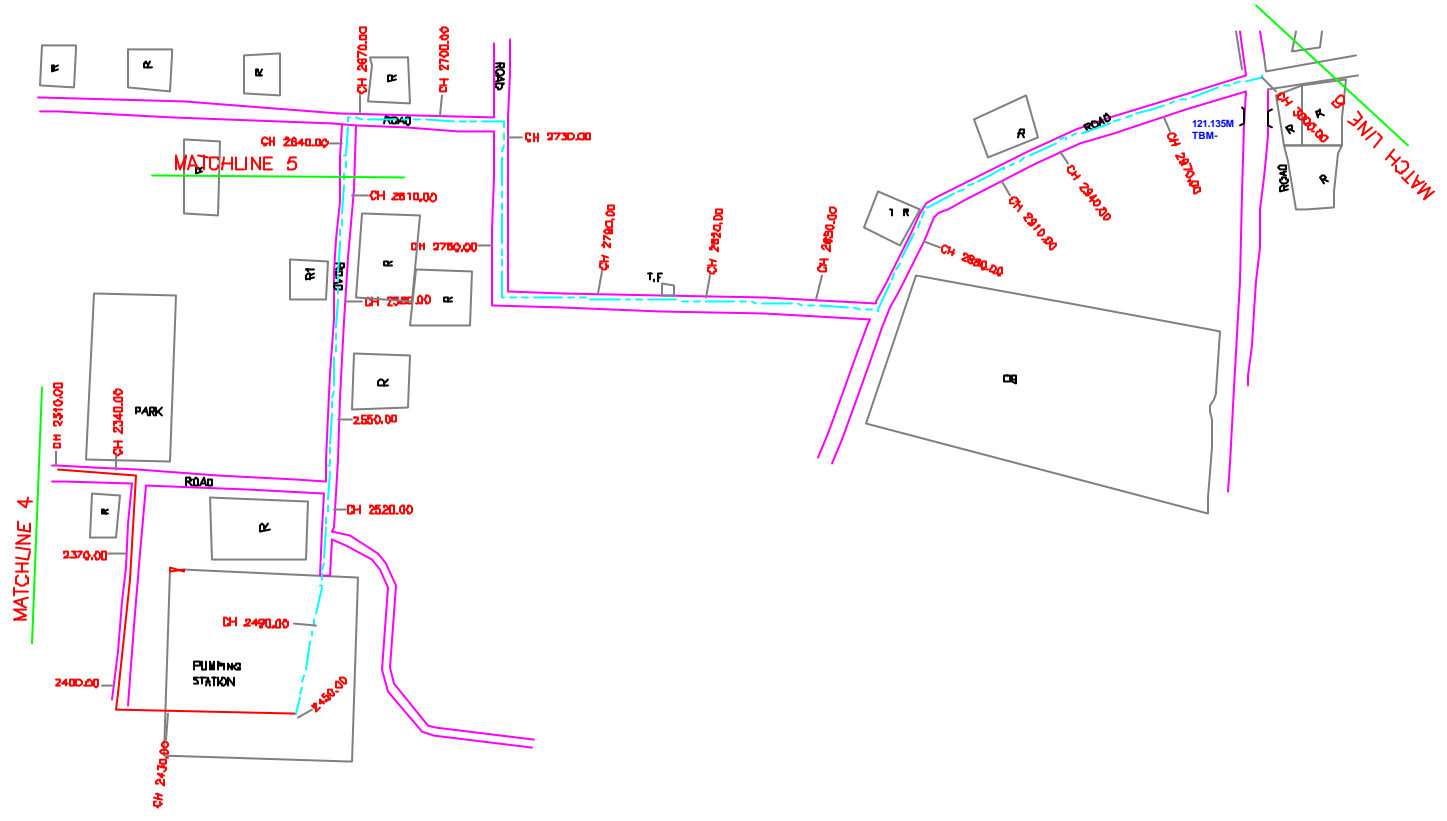
**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
PLAN & PROFILE FROM MAKRIKHERA NALA TO LAKHANPUR SPS (SHEET 5/5)

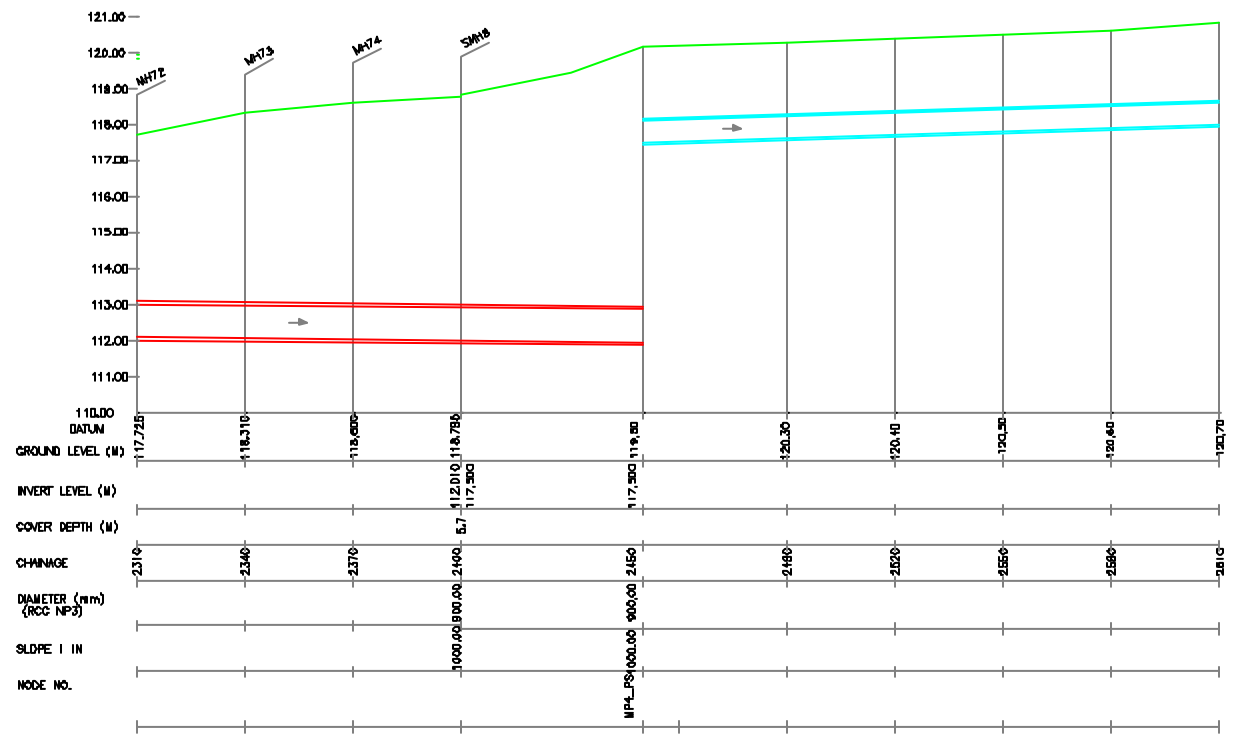
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|-------------|----------------|---------|-----|
| DRAWING NO. | KAN-PP-MP_ML-5 | SR. NO. | 136 |
|-------------|----------------|---------|-----|



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 120.770 M.  
 2) ALL THE LEVELS ARE IN METERS.



**PLAN**  
 SCALE- 1 : 1000



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

**LEGEND**

|                      |                |
|----------------------|----------------|
| PROPOSED SEWER LINE  | ---            |
| RISEING MAIN         | ---            |
| ROAD                 | ---            |
| RAILWAY LINE         | +              |
| DOME HOLE            | ○              |
| ELECTRICAL POLE      | □              |
| PLGT BOUNDARY        | □              |
| BUILDING             | □              |
| TEMPLE               | □              |
| BRIDGE / CULVERT     | —              |
| ROAD DIVIDER         | —              |
| MOSQUE               | □              |
| SPOT LEVEL           | 110.00         |
| MALLA                | —              |
| TEMPORARY BENCH MARK | TBM-117.700 M. |
| ORDINARY MANHOLE     | MH             |
| SCRAPPER 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  
 4) CATCHMENT AREA OF DISTRICT-II KAN-CA-D3-1

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

|      |                          |      |         |
|------|--------------------------|------|---------|
| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|      |                          |      |         |

|             |              |
|-------------|--------------|
| CHECKED BY: | APPROVED BY: |
| JONMAD KHAN | V.N.SCHTAKKE |
| DRAWN       | R.D.PARAB    |
| DESIGNED    | M.D.NAGVEKAR |
| BURVEYED    | KUMAR SURVEY |
| DATE        | 15-11-2004   |

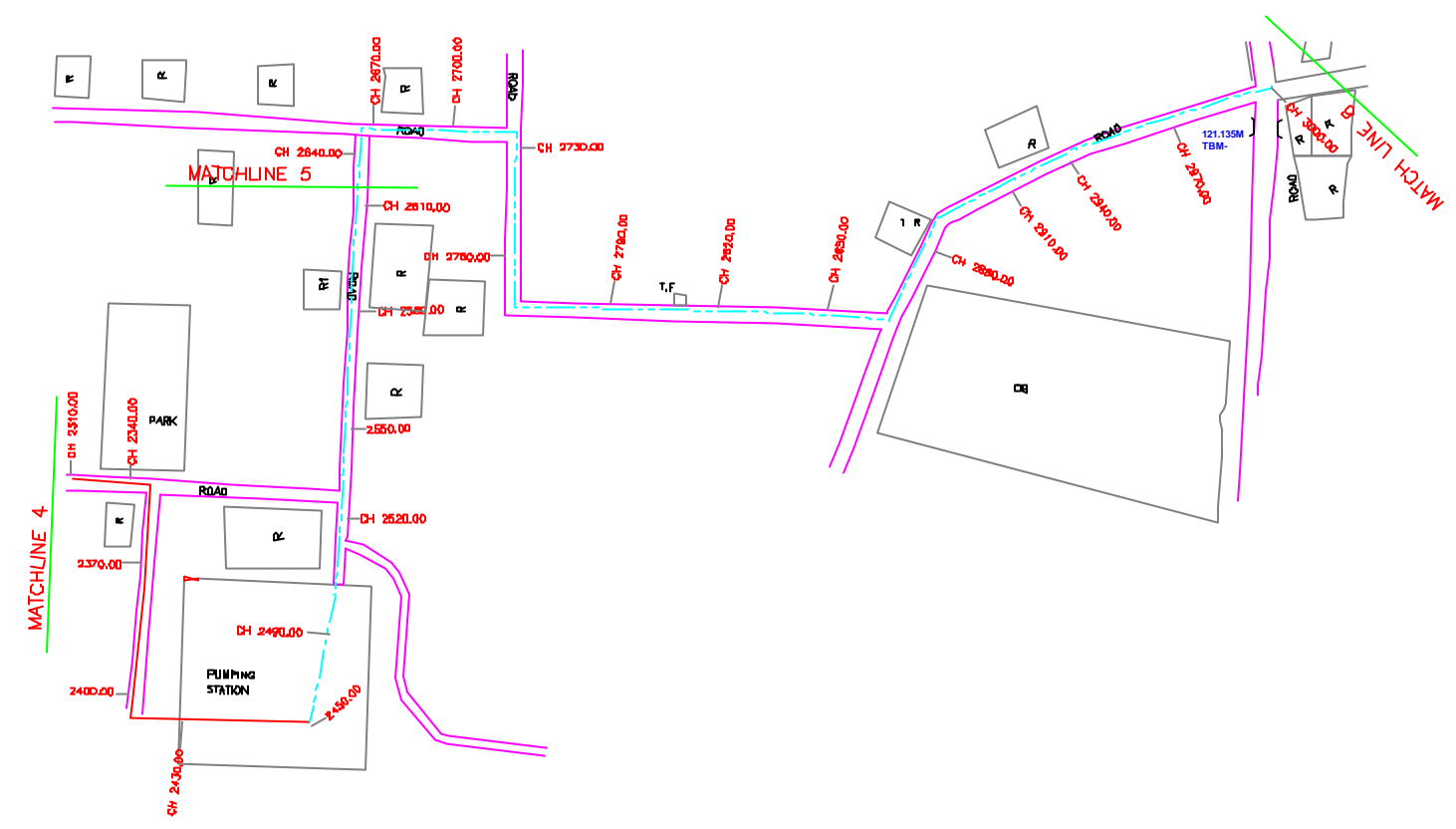
**JICA** INTERNATIONAL COOPERATION AGENCY  
 CONSULTANTS:  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH PRAKASH LIMITED

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

**SHEET CONTENTS:**  
 PLAN & PROFILE OF LAKHANPURA SPS RISING MAIN (SHEET 1/2)



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 128.770 M.  
 2) ALL THE LEVELS ARE IN METERS.

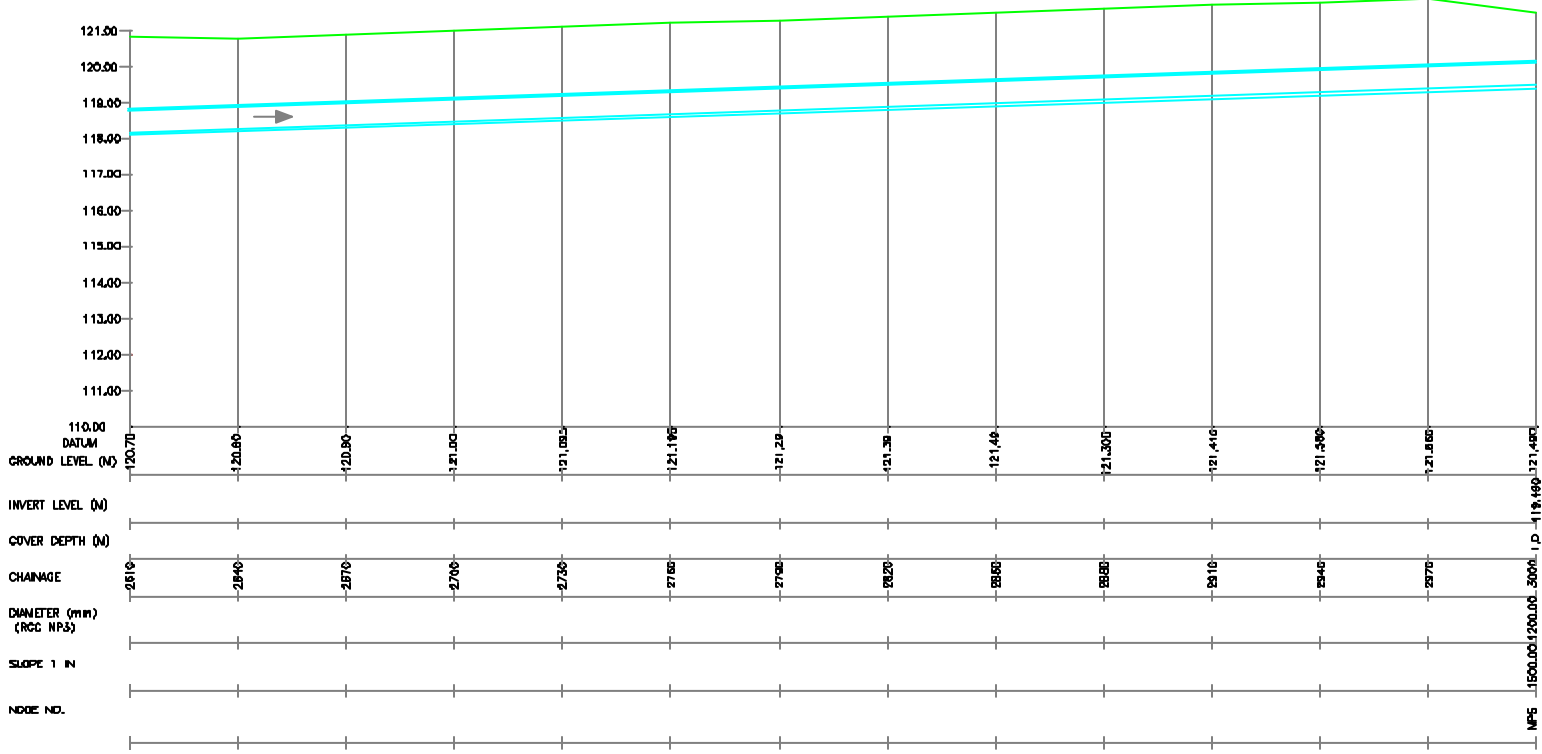


**PLAN**  
 SCALE- 1 : 1000

**LEGEND**

|                      |  |
|----------------------|--|
| PROPOSED SEWER LINE  |  |
| RISING MAIN          |  |
| ROAD                 |  |
| RAILWAY LINE         |  |
| BONE HOLE            |  |
| ELECTRICAL POLE      |  |
| PLOT BOUNDARY        |  |
| BUILDING             |  |
| TEMPLE               |  |
| BRIDGE / CULVERT     |  |
| ROAD DIVIDER         |  |
| MOSQUE               |  |
| SPOT LEVEL           |  |
| NALLA                |  |
| TEMPORARY BENCH MARK |  |
| ORDINARY MANHOLE     |  |
| SCRAPPER MANHOLE     |  |
| VENT SHAFT           |  |

**REFERENCE DRAWING :**  
 1) BASE MAP WITH BEVERAGE 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 OF DISTRICT-II KAN-CA-D3-1



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

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

|              |              |
|--------------|--------------|
| CHECKED BY:  | APPROVED BY: |
| JONMED KHAN  | V.N.SONTAKKE |
| DESIGNED:    | SCALE:       |
| N.D.NAGVEKAR | AS SHOWN     |
| SURVEYED:    | DATE:        |
| KUMAR SURVEY | 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 & PROFILE OF LAKHANPUR SPS RISING MAIN (SHEET 2/2)

12 11 10 9 8 7 6 5 4 3 2 1



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                                |  |
|--------------------------------|--|
| TRENCHLESS PROPOSED SEWER LINE |  |
| RISING MAIN ROAD               |  |
| RAILWAY LINE                   |  |
| BORE HOLE                      |  |
| ELECTRICAL POLE                |  |
| PLOT BOUNDARY                  |  |
| BUILDING                       |  |
| TEMPLE                         |  |
| BRIDGE / CULVERT               |  |
| ROAD DIVIDER                   |  |
| MOSQUE                         |  |
| SPOT LEVEL                     |  |
| WALL                           |  |
| TEMPORARY BENCH MARK           |  |
| ORDINARY MANHOLE               |  |
| SCRAPER MANHOLE                |  |
| VENT SHAFT                     |  |

**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 OF DISTRICT-II KAN-CA-D3-1

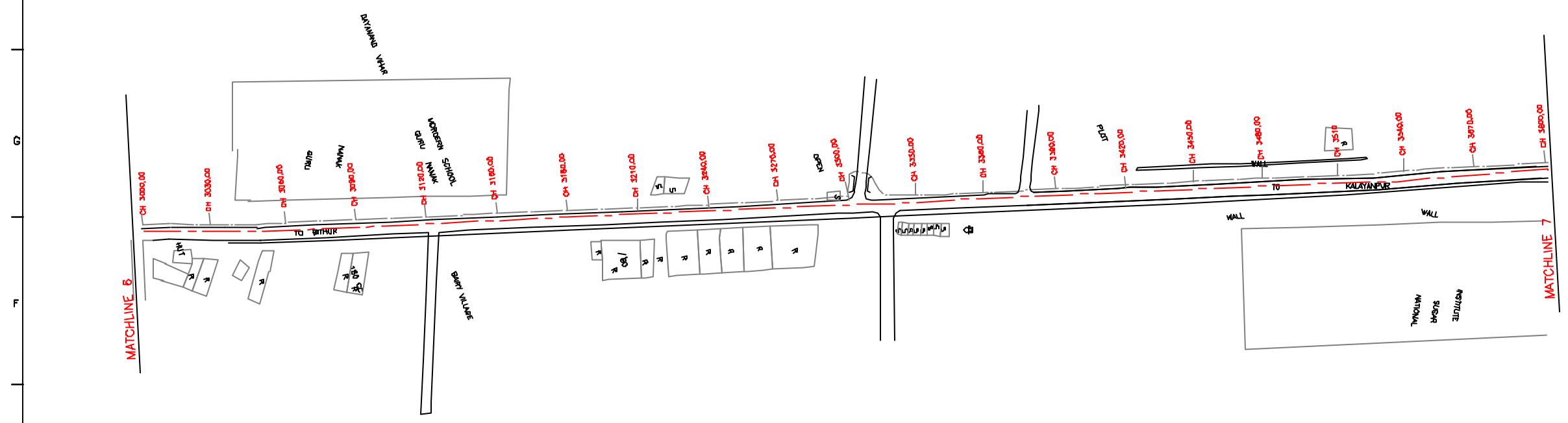
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|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELCD.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRA.    |   |   |   |   |   |
| CIVL.    |   |   |   |   |   |
| REV. NO. | 0 | 1 | 2 | 3 | 4 |

|             |              |              |            |
|-------------|--------------|--------------|------------|
| CHECKED BY: |              | APPROVED BY: |            |
| JUNAED KHAN |              | V.N.SCHTAKKE |            |
| DRAWN       | R.D.PARAB    | SCALE        | AS SHOWN   |
| DESIGNED    | M.D.NAGVEKAR | DATE         | 28-12-2004 |
| SURVEYED    |              | KUMAR SURVEY |            |

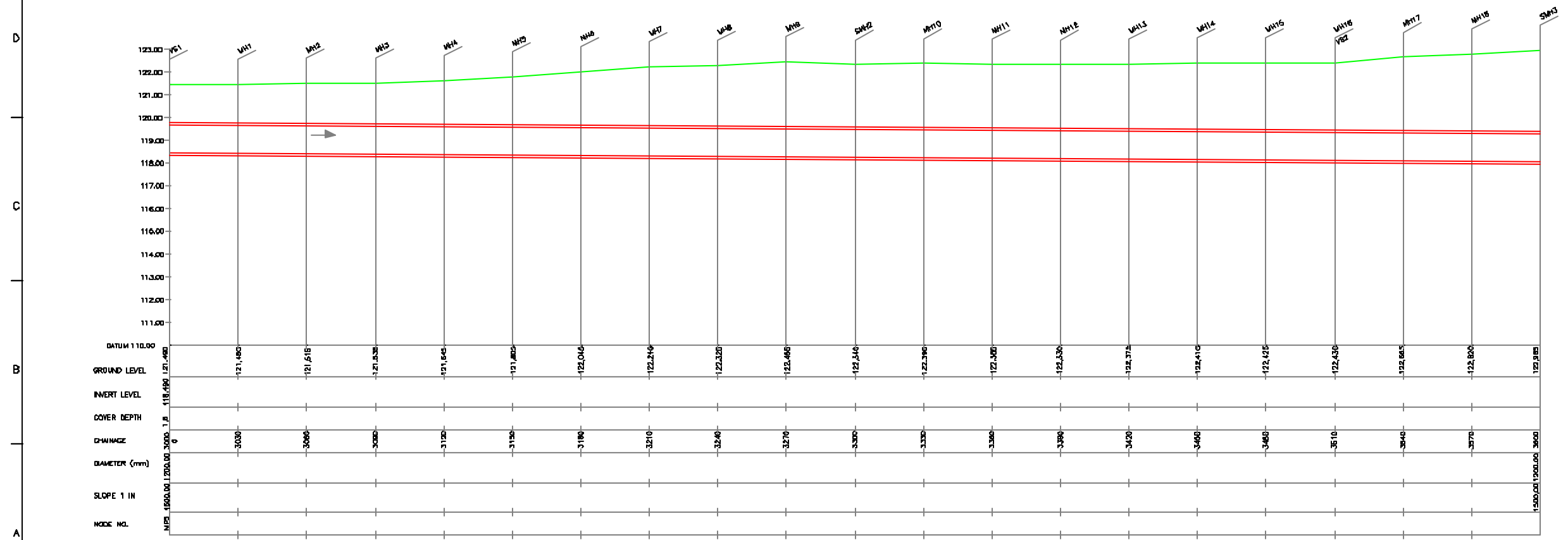
**CONSULTANTS:**  
  
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM LAKHANPUR SPS TO PANKI SPS (SHEET 1/9)

DRAWING NO. KAN-PP-MP\_LP-1  
 SR. NO. 139

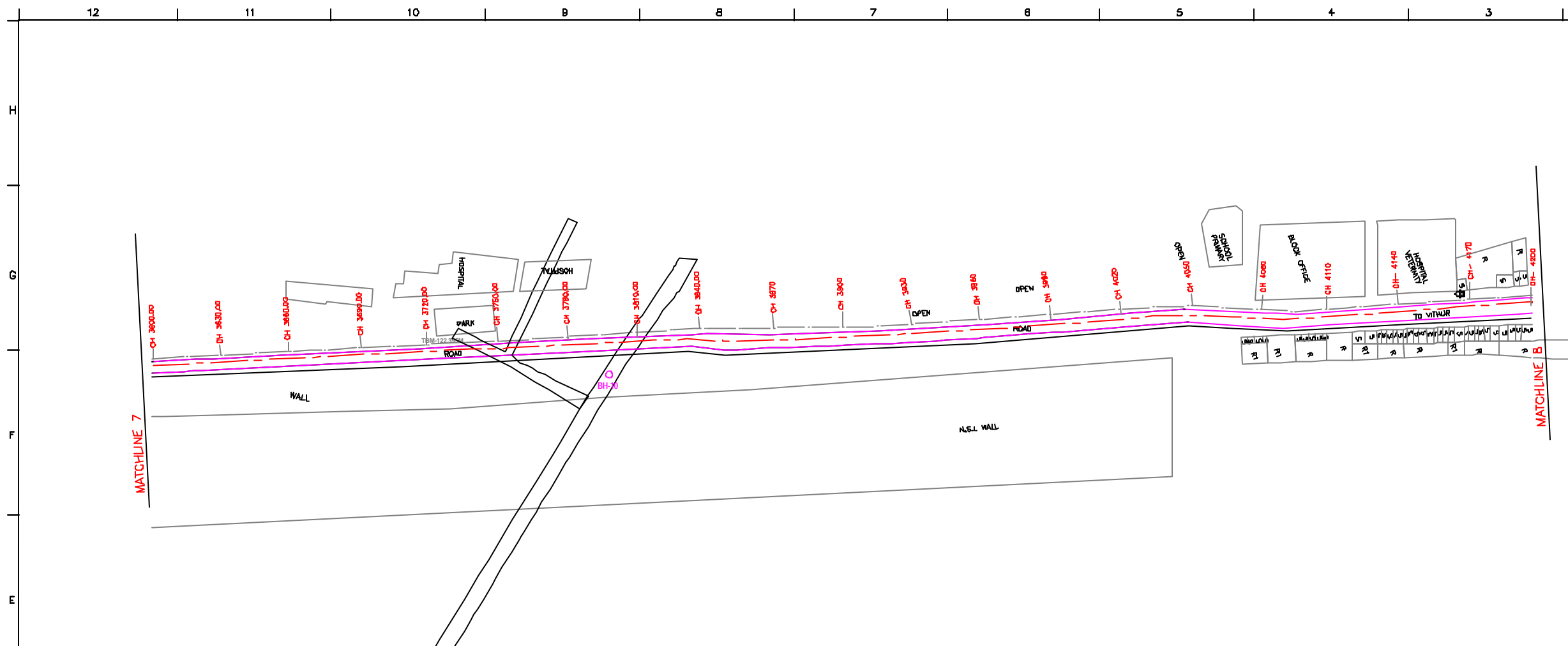


**PLAN**  
 SCALE- 1 : 1000



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

12 11 10 9 8 7 6 5 4 3 2 1



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                                |                |
|--------------------------------|----------------|
| TRENCHLESS PROPOSED SEWER LINE | ---            |
| RIISING MAIN ROAD              | ---            |
| RAILWAY LINE                   |                |
| BORE HOLE                      | ○ BH-18        |
| ELECTRICAL POLE                | ⊕              |
| PLOT BOUNDARY                  | □              |
| BUILDING                       | ▭              |
| TEMPLE                         | ⊕              |
| BRIDGE / CULVERT               | ⌒              |
| ROAD DIVER                     | ⌒              |
| MOSQUE                         | ⊕              |
| SPOT LEVEL                     | 115.00         |
| WALL                           | —              |
| 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  
 4) DATCHMENT AREA OF DISTRICT-II KAN-CA-03-1

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

|             |              |              |            |
|-------------|--------------|--------------|------------|
| CHECKED BY: |              | APPROVED BY: |            |
| JUNAED KHAN |              | V.N.SCHTAKKE |            |
| DRAWN       | R.D.PARAB    | SCALE        | AS SHOWN   |
| DESIGNED    | M.D.NAGVEKAR | DATE         | 28-12-2004 |
| SURVEYED    |              | KUMAR SURVEY |            |

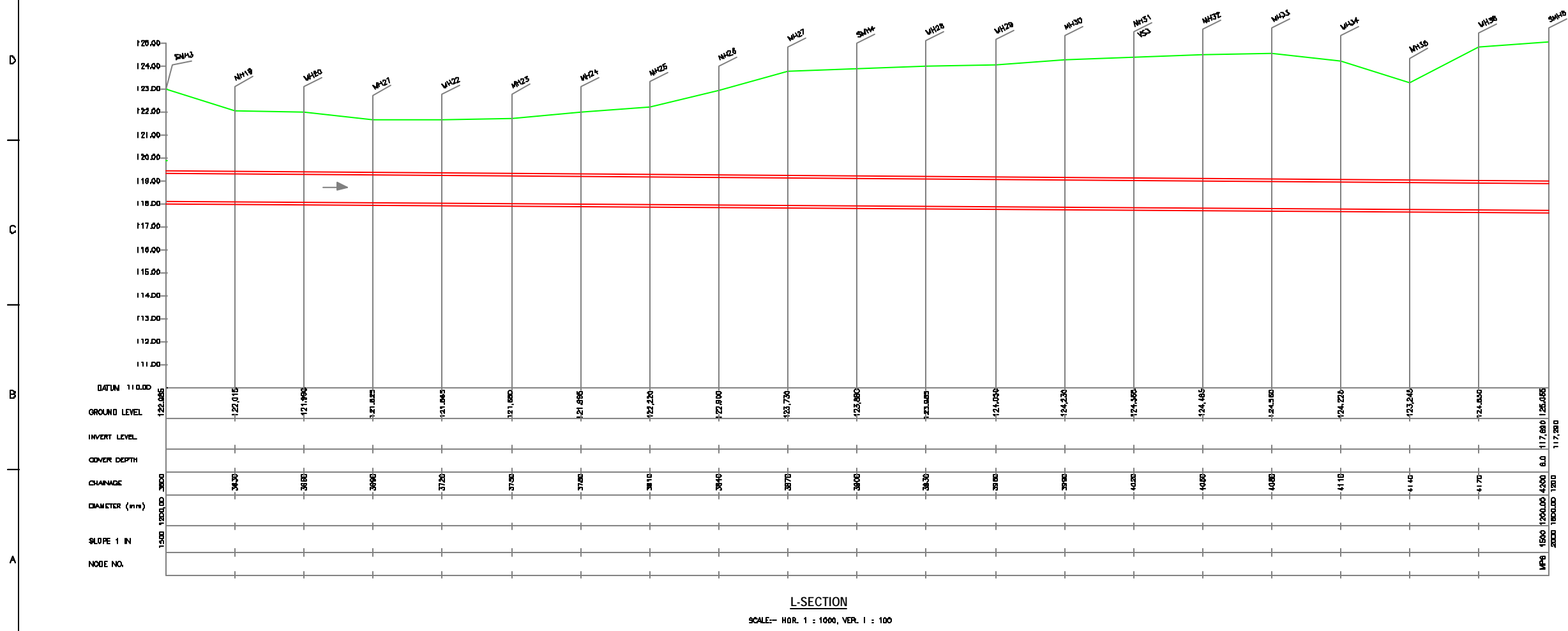
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CFI ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH PRAKASH LIMITED

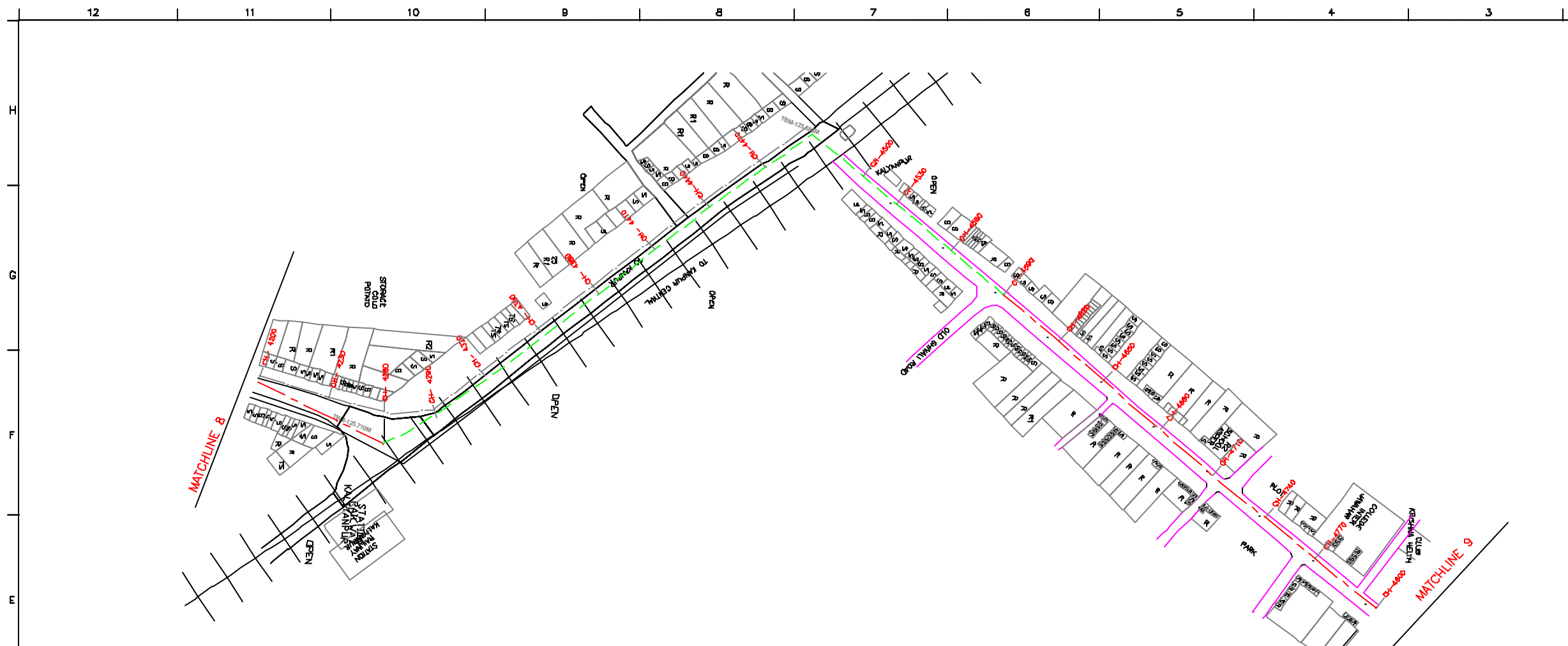
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM LAKHANPUR SPS TO PANKI SPS (SHEET 2/9)

**DRAWING NO.**  
 KAN-PP-MP\_LP-2

**SR. NO**  
 140





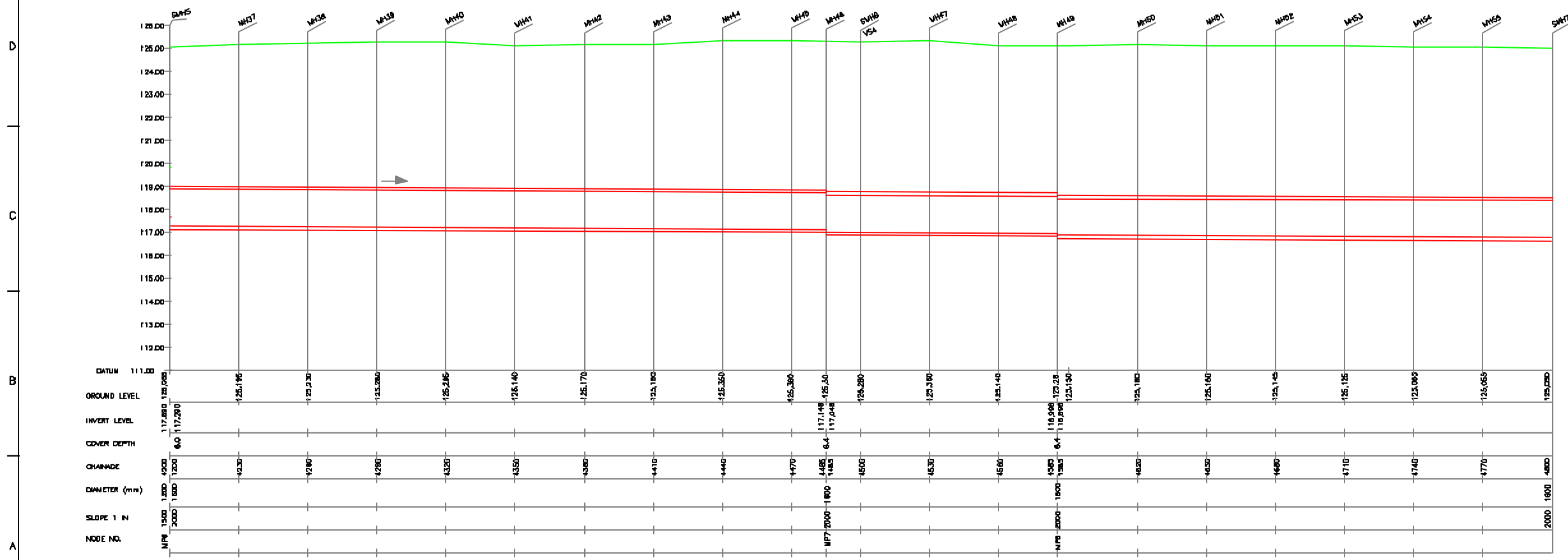
PLAN  
SCALE- 1 : 1000

**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                                |                |
|--------------------------------|----------------|
| TRENCHLESS PROPOSED SEWER LINE | ---            |
| RISING MAIN ROAD               | ---            |
| RAILWAY LINE                   |                |
| BORE HOLE                      | ⊕ BM-18        |
| ELECTRICAL POLE                | ⊕              |
| PLOT BOUNDARY                  | ---            |
| BUILDING                       | ▭              |
| 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                     | VB             |

**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 OF DISTRICT-II KAN-CA-D3-1



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:     |
| JOHNAED KHAN           | V.N.SCHTAKKE     |
| DRAWN: R.D.PARAB       | SCALE: AS SHOWN  |
| DESIGNED: N.D.NAGVEKAR | DATE: 28-12-2004 |
| SURVEYED: KUMAR SURVEY |                  |

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CTE ENGINEERING INTERNATIONAL CO., LTD.  
 SHYAM SRI PRAKASH LIMITED

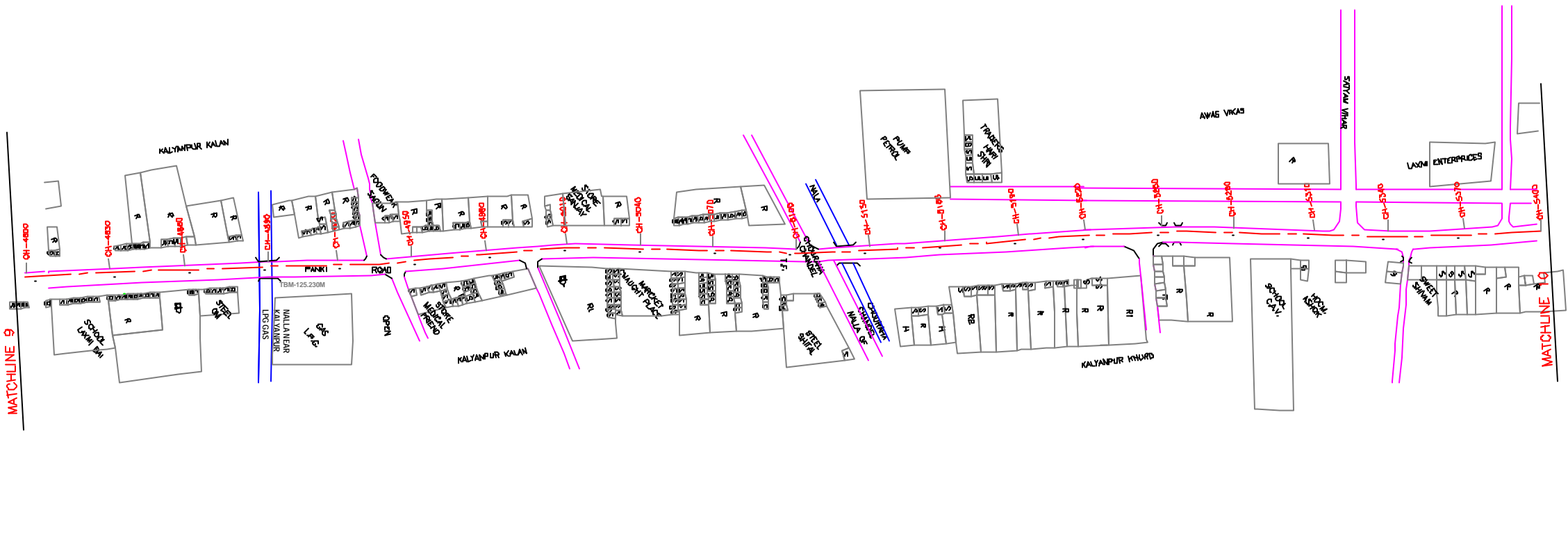
**PROJECT:**  
 THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
 FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
 PLAN AND PROFILE FROM LAKHANPUR SPS TO PANKI SPS (SHEET 3/9)

12 11 10 9 8 7 6 5 4 3 2 1



**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
 2) ALL THE LEVELS ARE IN METERS.



**PLAN**  
 SCALE- 1 : 1000

**LEGEND**

|                                |  |
|--------------------------------|--|
| TRENCHLESS 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           |  |
| ORDINARY MANHOLE               |  |
| SCRAPER MANHOLE                |  |
| VENT SHAFT                     |  |

**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 OF DISTRICT-II KAN-CA-03-1

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

|      |                          |      |         |
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| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
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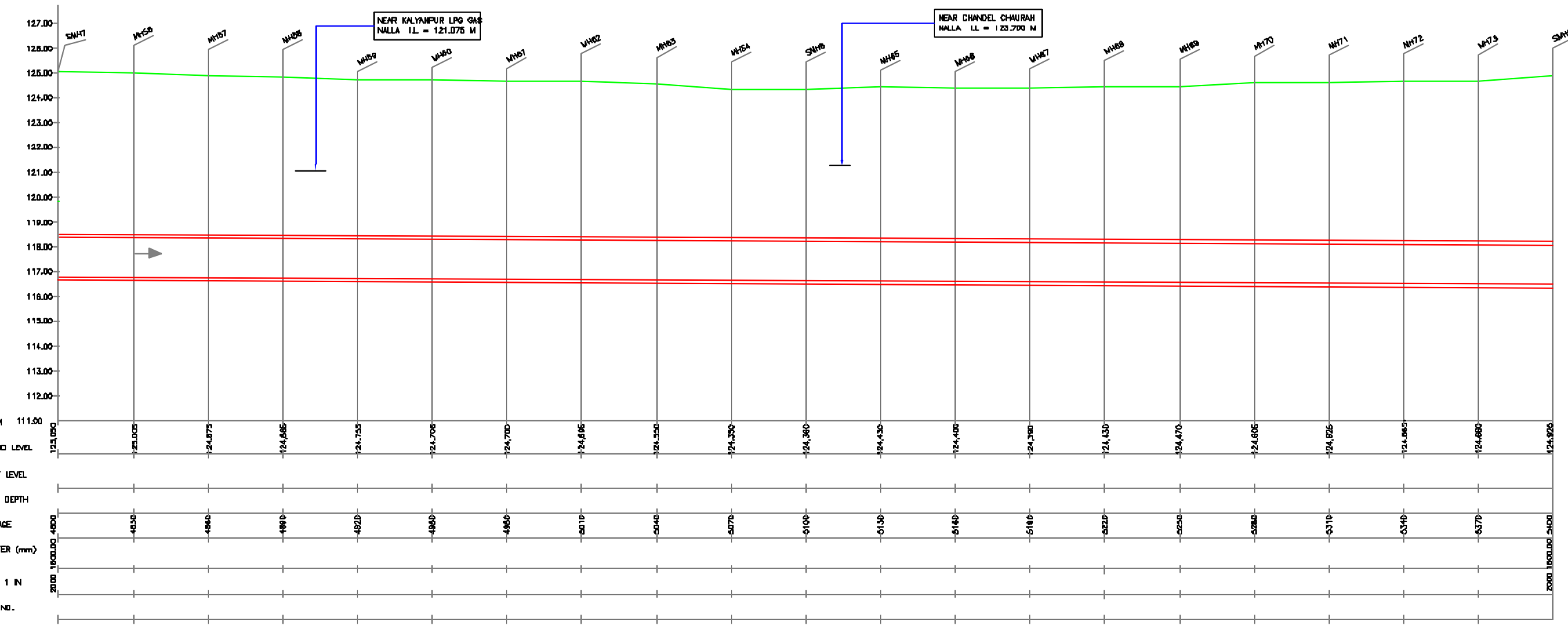
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| CHECKED BY:            | APPROVED BY:     |
| JOHNAED KHAN           | V.N.SCHTAKKE     |
| DRAWN: R.D.PARAB       | SCALE: AS SHOWN  |
| DESIGNED: N.D.NAGVEKAR | DATE: 28-12-2004 |
| SURVEYED: KUMAR SURVEY |                  |

**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 FROM LAKHANPUR SPS TO PANKI SPS (SHEET 4/9)

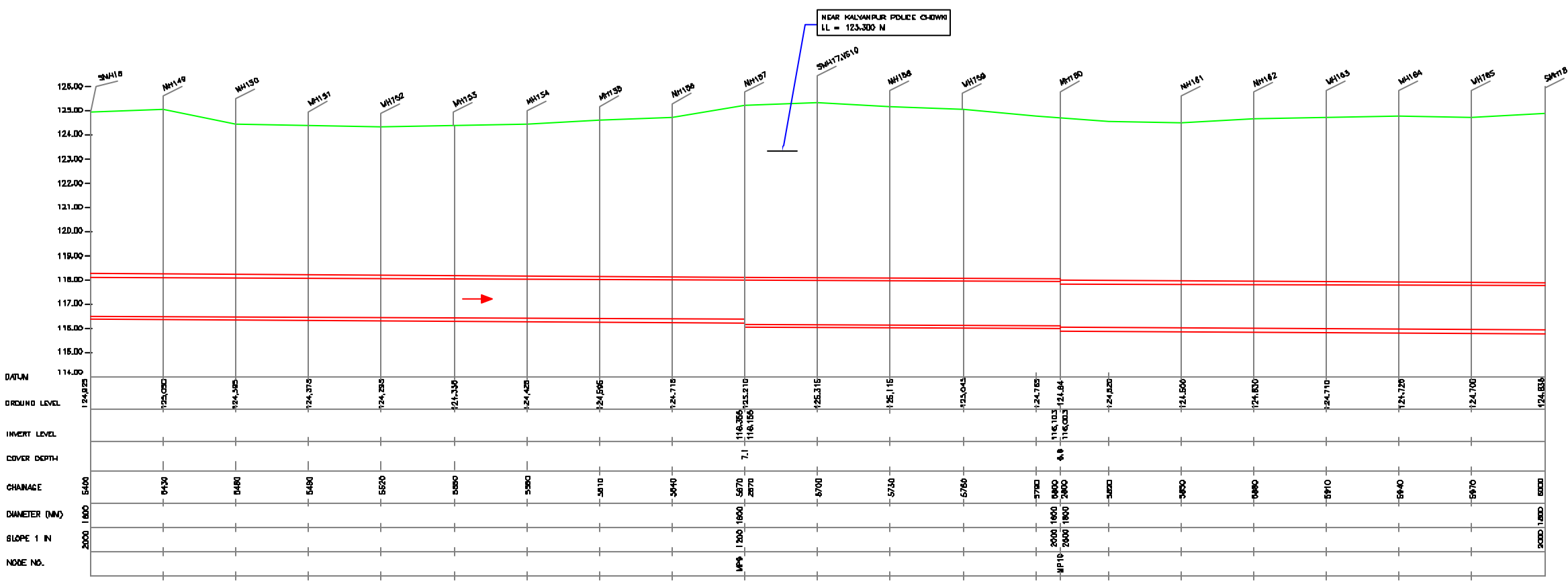
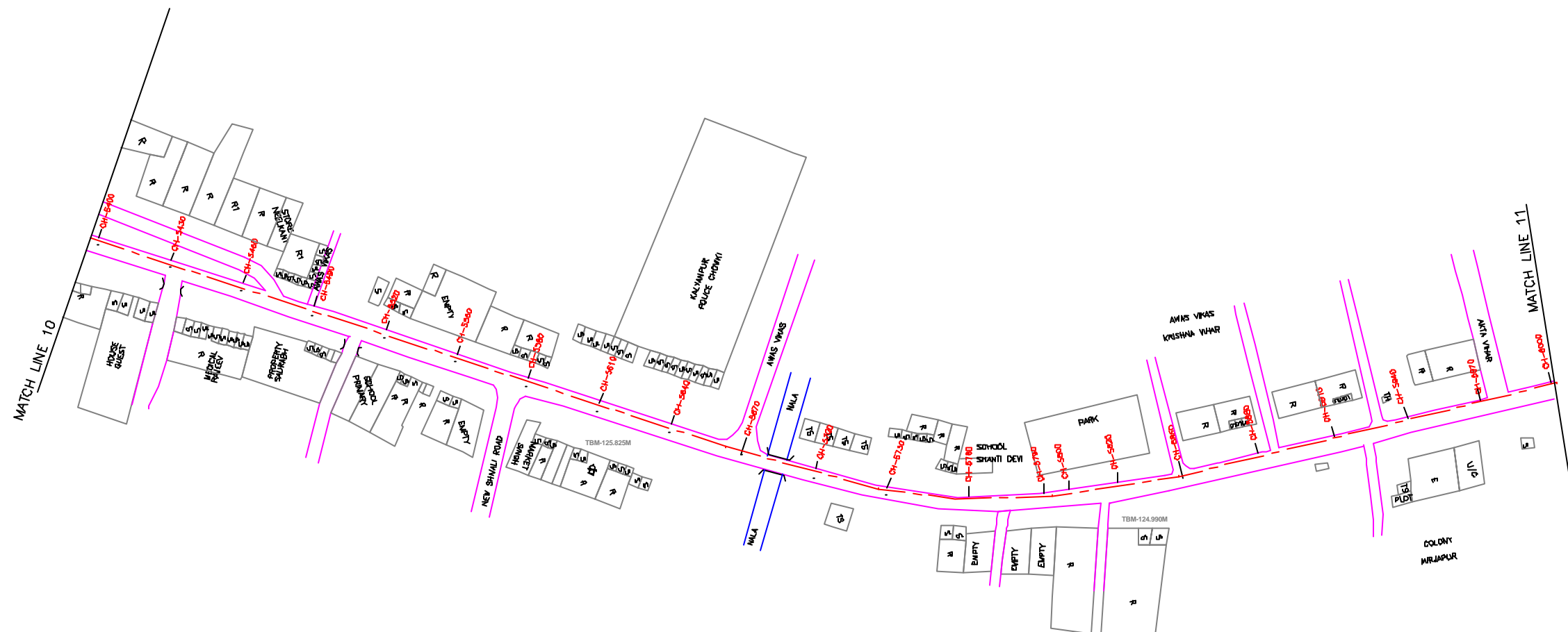
DRAWING NO. KAN-PP-MP\_LP-4  
 SR. NO. 142



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

12 11 10 9 8 7 6 5 4 3 2 1





**NOTE:**  
1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                                |                |
|--------------------------------|----------------|
| TRENCHLESS PROPOSED SEWER LINE | ---            |
| RISING MAIN ROAD               | ---            |
| RAILWAY LINE                   | +              |
| BORE HOLE                      | ○              |
| ELECTRICAL POLE                | ⊕              |
| PLOT BOUNDARY                  | ---            |
| BUILDING                       | ▭              |
| TEMPLE                         | ⊕              |
| BRIDGE / CULVERT               | ⊕              |
| ROAD DIVIDER                   | ---            |
| MOSQUE                         | ⊕              |
| SPOT LEVEL                     | 115.00         |
| NALLA                          | ---            |
| TEMPORARY BENCH MARK           | TBM-117.700 N. |
| 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  
4) DATCHMENT AREA OF DISTRICT-II KAN-CA-03-1

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

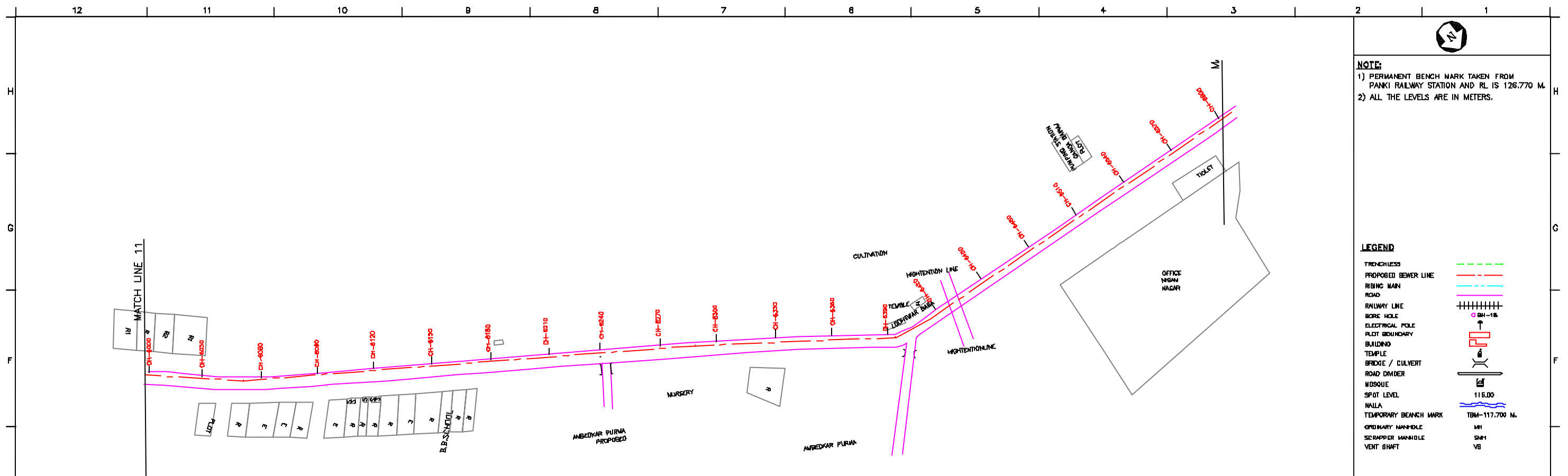
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| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
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|      |                          |      |         |

|                        |                  |
|------------------------|------------------|
| CHECKED BY:            | APPROVED BY:     |
| JOHNAED KHAN           | V.N.SONTAKKE     |
| DRAWN: R.D.PARAB       | SCALE: AS SHOWN  |
| DESIGNED: N.D.NAGVEKAR | DATE: 28-12-2004 |
| BURVEYED: KUMAR SURVEY |                  |

**CONSULTANTS:**  
JICA INTERNATIONAL COOPERATION AGENCY  
TOKYO ENGINEERING CONSULTANTS CO., LTD.  
CTI 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:**  
PLAN AND PROFILE FROM LAKHANPUR SPS TO PANKI SPS (SHEET 5/9)



PLAN  
SCALE- 1 : 1000

**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                                |  |
|--------------------------------|--|
| TRENCHLESS 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           |  |
| ORDINARY MANHOLE               |  |
| SCRAPER MANHOLE                |  |
| VENT SHAFT                     |  |

**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-KEY-1  
 4) DATCHMENT AREA OF DISTRICT-II KAN-CA-03-1

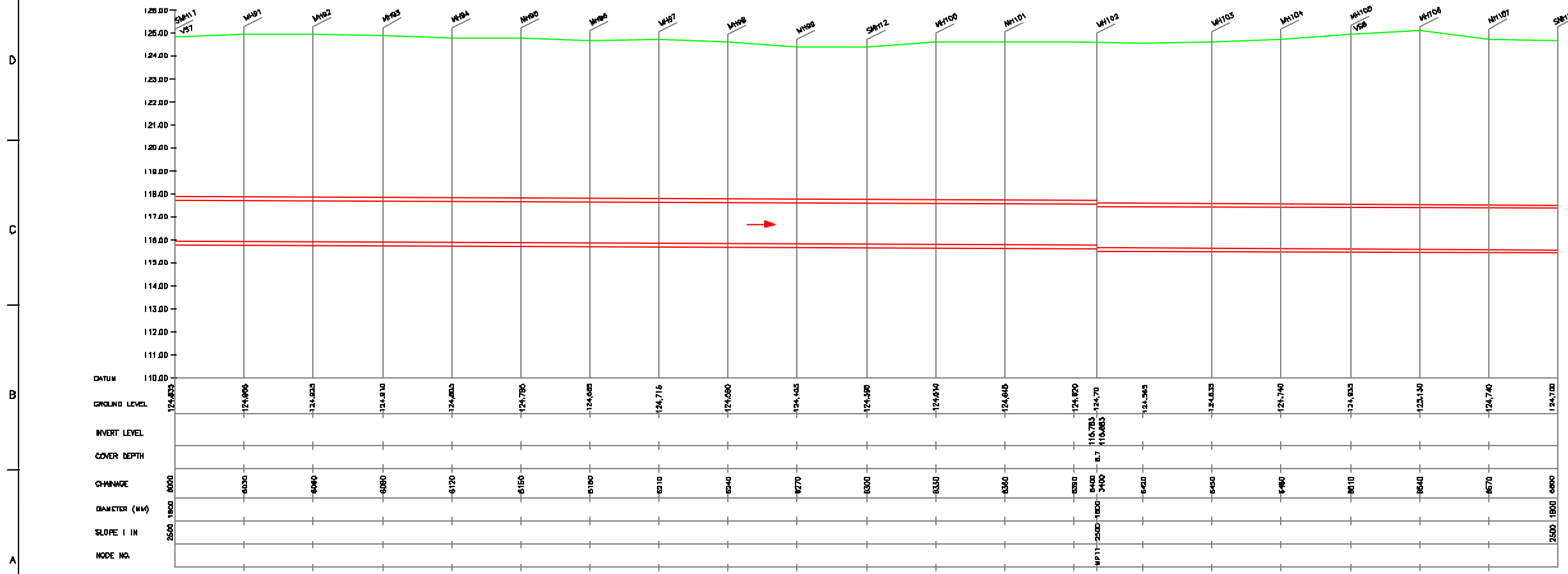
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|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELCD.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRA.    |   |   |   |   |   |
| CIVL.    |   |   |   |   |   |
| REV. NO. | 0 | 1 | 2 | 3 | 4 |

|             |              |              |            |
|-------------|--------------|--------------|------------|
| CHECKED BY: |              | APPROVED BY: |            |
| JUNAED KHAN |              | V.N.SCHTAKKE |            |
| DRAWN       | H.S.PANWAR   | SCALE        | AS SHOWN   |
| DESIGNED    | M.D.NAGVEKAR | DATE         | 28-12-2004 |
| SURVEYED    |              | KUMAR SURVEY |            |

**JICA** INTERNATIONAL COOPERATION AGENCY  
 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 FROM LAKHANPUR SPS TO PANKI SPS (SHEET 6/9)



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

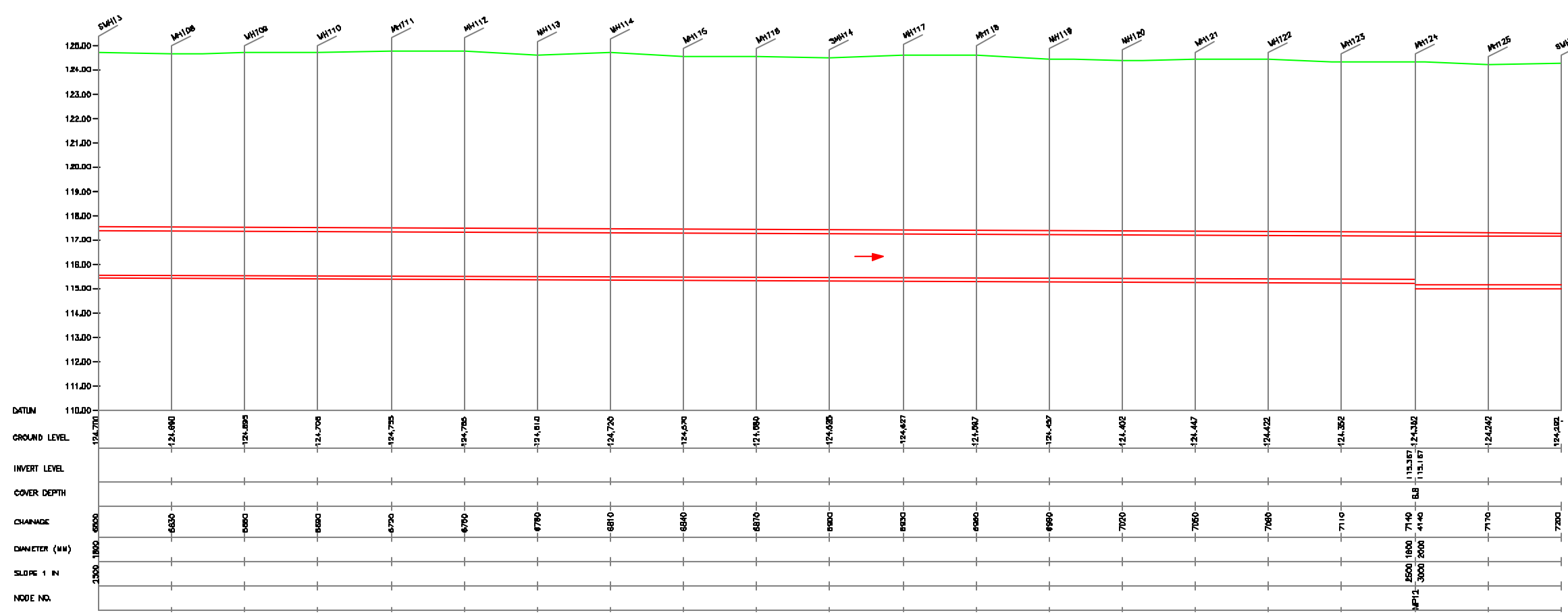
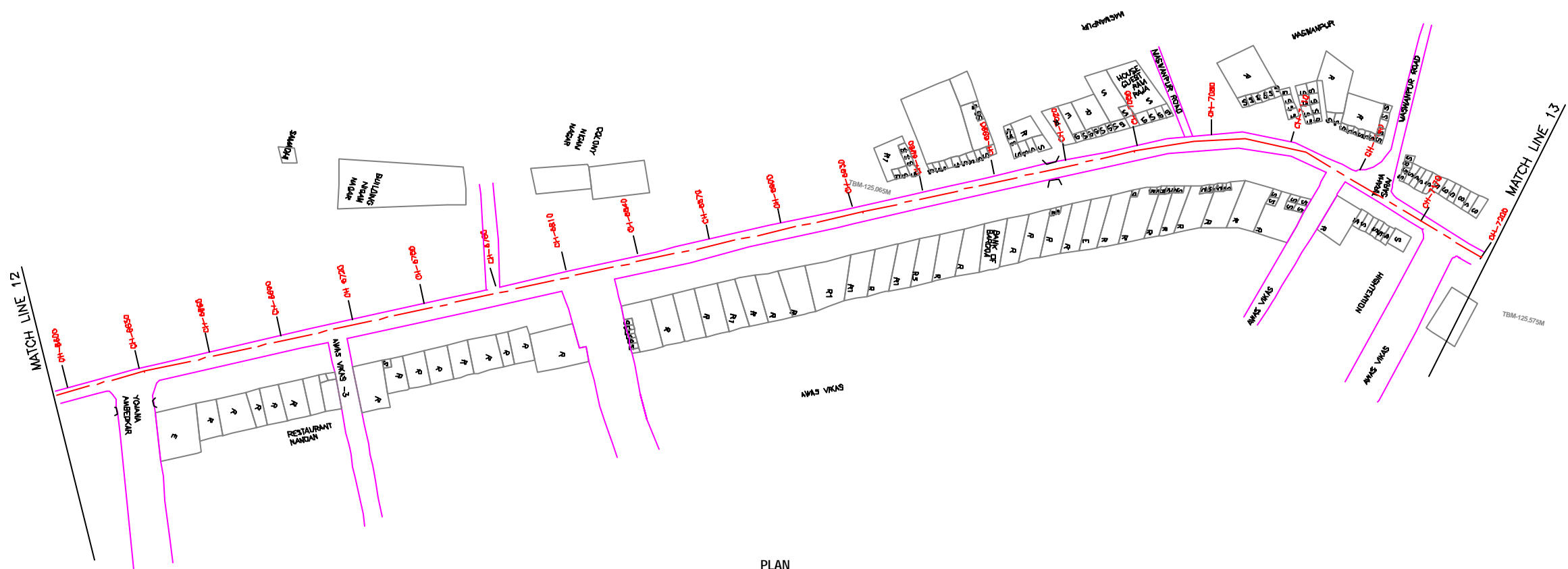


**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                      |                |
|----------------------|----------------|
| TRENCHLESS           | ---            |
| PROPOSED SEWER LINE  | ---            |
| RISING MAIN          | ---            |
| ROAD                 | ---            |
| RAILWAY LINE         |                |
| BORE HOLE            | ○ BM-18        |
| ELECTRICAL POLE      | ⊕              |
| PLOT BOUNDARY        | ---            |
| BUILDING             | ▭              |
| 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  
 4) DATCHMENT AREA OF DISTRICT-II KAN-CA-D3-1



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

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

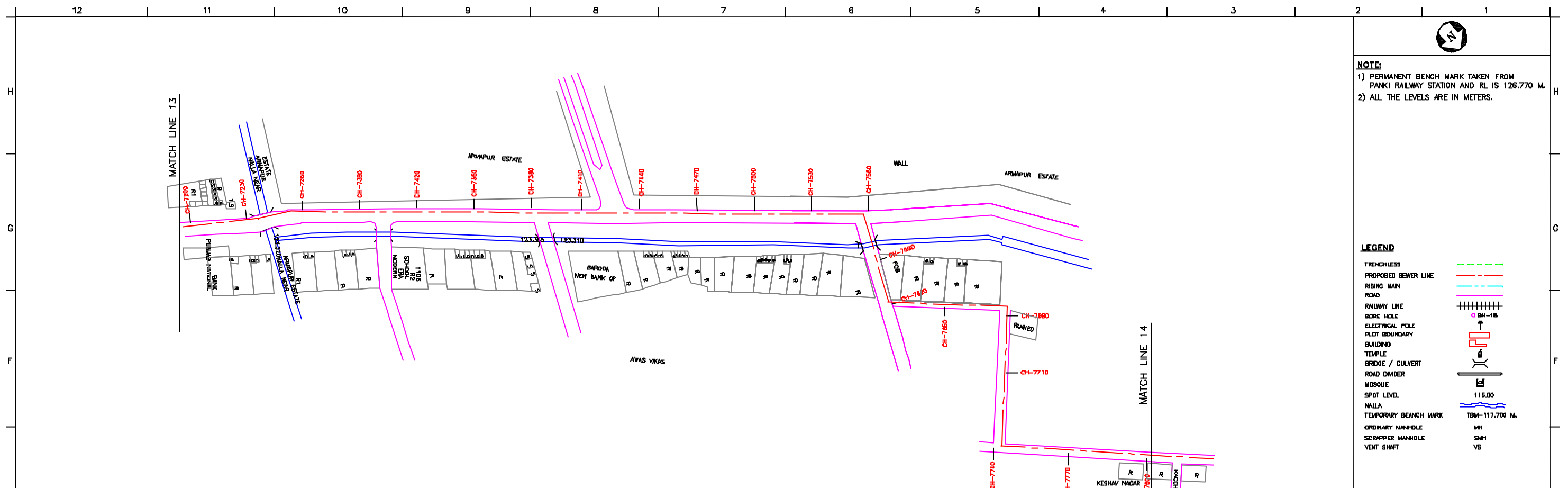
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| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|      |                          |      |         |

|                        |                  |
|------------------------|------------------|
| CHECKED BY:            | APPROVED BY:     |
| JONMED KHAN            | V.N.SCHTAKKE     |
| DRAWN: H.S.PANWAR      | SCALE: AS SHOWN  |
| DESIGNED: N.D.NAGVEKAR | DATE: 28-12-2004 |
| BURVEYED: KUMAR SURVEY |                  |

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
 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 FROM LAKHANPUR SPS TO PANKI SPS (SHEET 7/9)



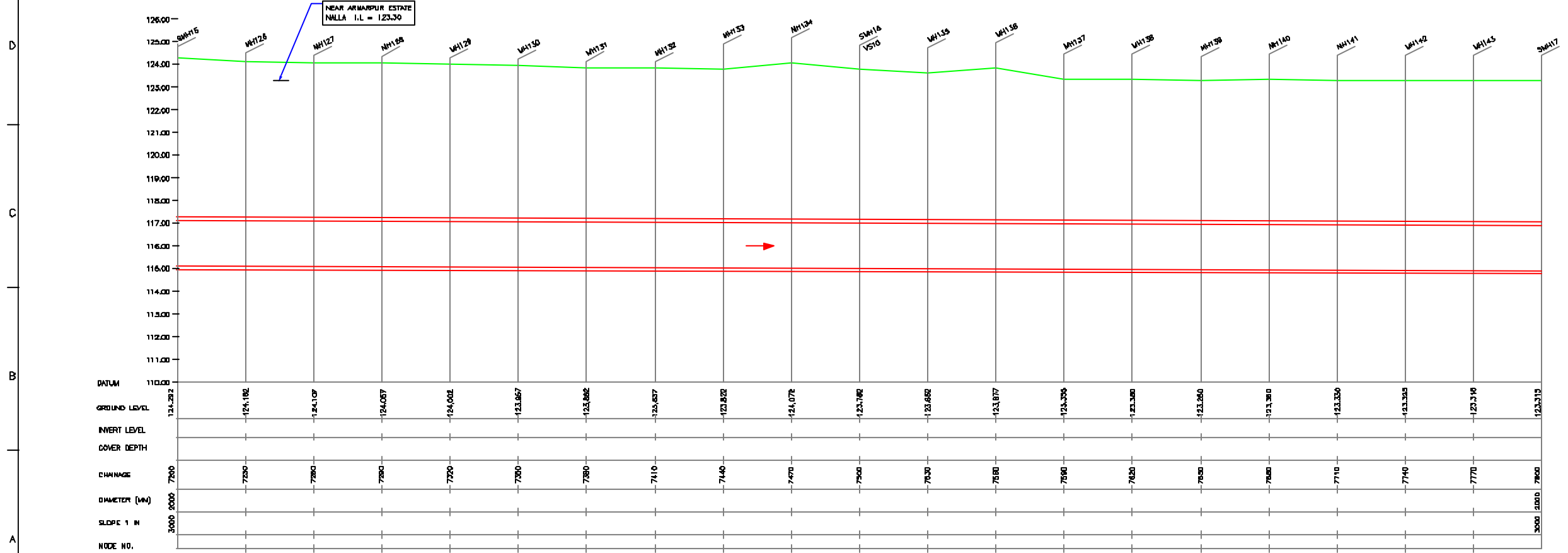
PLAN  
SCALE- 1 : 1000

**NOTE:**  
 1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
 2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                                |  |
|--------------------------------|--|
| TRENCHLESS 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           |  |
| ORDINARY MANHOLE               |  |
| SCRAPER MANHOLE                |  |
| VENT SHAFT                     |  |

**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 OF DISTRICT-II KAN-CA-03-1



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

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

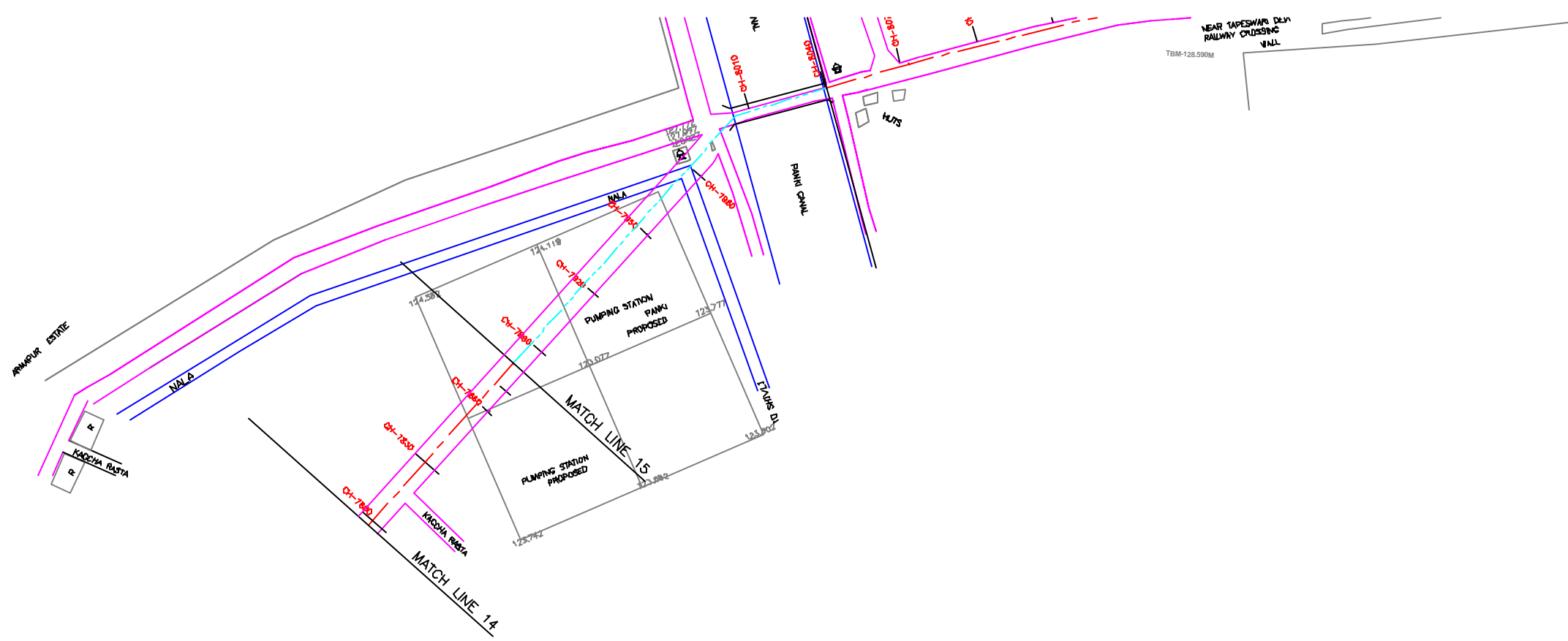
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| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|      |                          |      |         |

|                        |                  |
|------------------------|------------------|
| CHECKED BY:            | APPROVED BY:     |
| JOINED KHAN            | V.N.SONTAKKE     |
| DRAWN: H.S.PANWAR      | SCALE: AS SHOWN  |
| DESIGNED: N.D.NAGVEKAR | DATE: 28-12-2004 |
| BURVEYED: KUMAR SURVEY |                  |

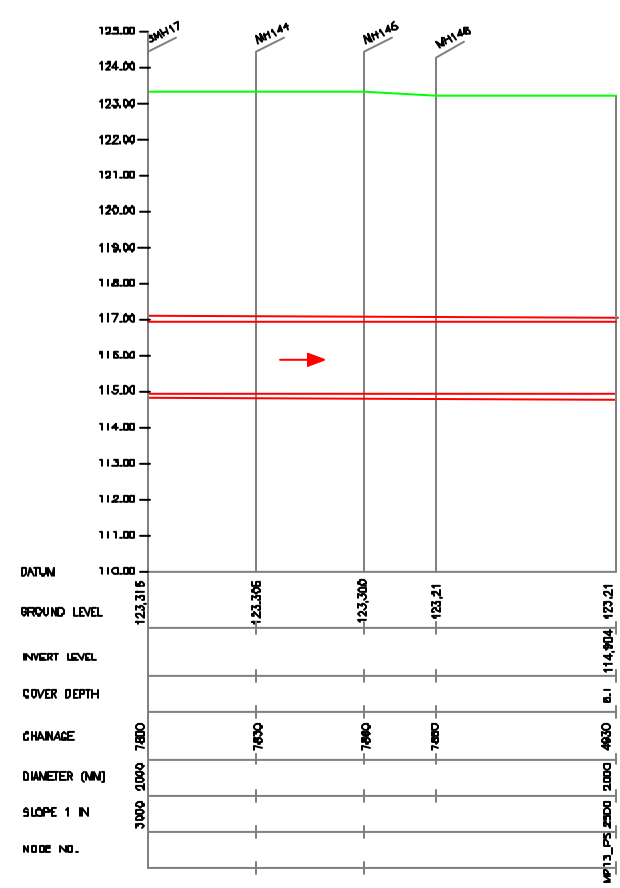
**JICA** INTERNATIONAL COOPERATION AGENCY  
**CONSULTANTS:**  
 TOKYO ENGINEERING CONSULTANTS CO., LTD.  
 CFI ENGINEERING INTERNATIONAL CO., LTD.  
 SURESH PRAKASH LIMITED

**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 FROM LAKHANPUR SPS TO PANKI SPS (SHEET 8/9)



PLAN  
SCALE:- 1 : 1000



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

**NOTE:**  
1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                                |                |
|--------------------------------|----------------|
| TRENCHLESS PROPOSED SEWER LINE |                |
| RISING MAIN ROAD               |                |
| RAILWAY LINE                   |                |
| BORE HOLE                      |                |
| ELECTRICAL POLE                |                |
| PLOT BOUNDARY                  |                |
| BUILDING                       |                |
| 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  
4) DATCHMENT AREA OF DISTRICT-II KAN-CA-D3-1

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

| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|------|--------------------------|------|---------|
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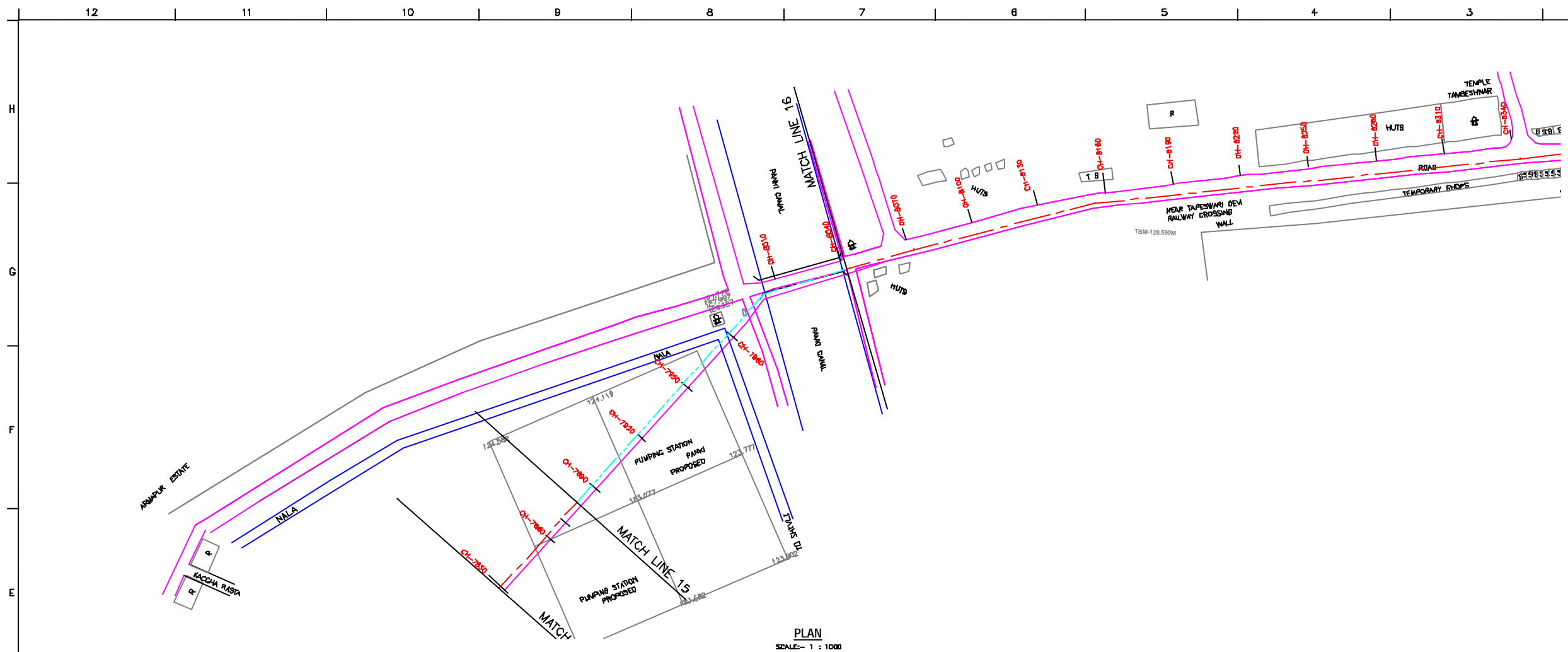
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| CHECKED BY: | JOINED KHAN  |                                        | APPROVED BY: | V.N.SCHTAKKE |  |
| DRAWN       | H.S.PANWAR   | SCALE                                  | AS SHOWN     |              |  |
| DESIGNED    | M.D.NAGVEKAR | DATE                                   | 28-12-2004   |              |  |
| BURVEYED    | KUMAR SURVEY | JAPAN INTERNATIONAL COOPERATION AGENCY |              |              |  |

**CONSULTANTS:**

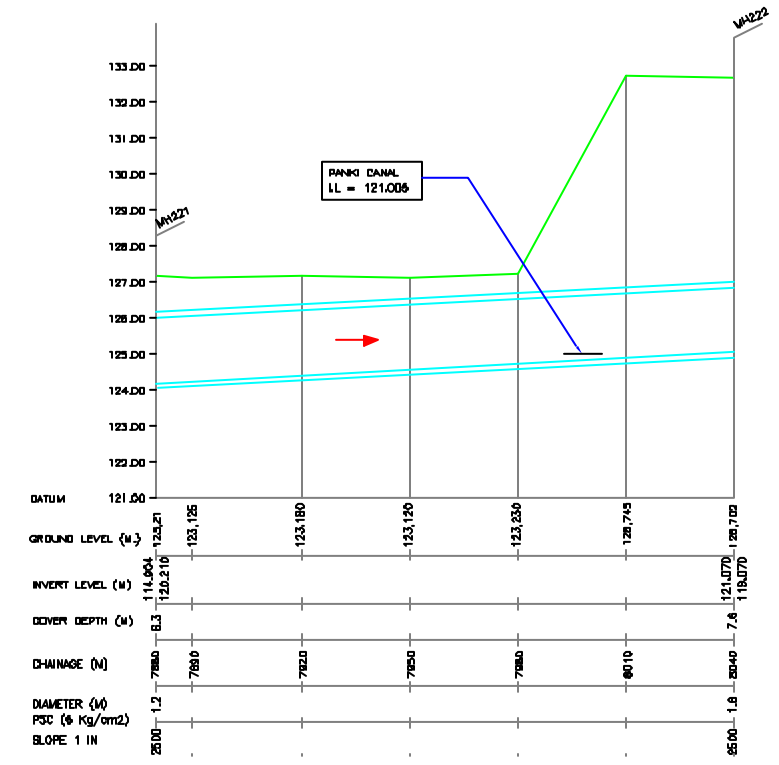
**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
PLAN AND PROFILE FROM LAKHANPUR SPS TO PANKI SPS (SHEET 9/9)

DRAWING NO. KAN-PP-MP\_LP-9  
SER. NO. 147



PLAN  
SCALE: 1 : 1000



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

**NOTE:**  
1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 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           | 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       |
| 4) DATCHMENT AREA OF DISTRICT-II                              | KAN-CA-03-1    |

|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| INST.    |   |   |   |   |   |
| ELCD.    |   |   |   |   |   |
| MECH.    |   |   |   |   |   |
| STRU.    |   |   |   |   |   |
| CIVIL    |   |   |   |   |   |
| REV. NO. | 0 | 1 | 2 | 3 | 4 |

| REV. | DESCRIPTION OF REVISIONS | DATE | CHECKED |
|------|--------------------------|------|---------|
|      |                          |      |         |

|             |              |              |              |
|-------------|--------------|--------------|--------------|
| CHECKED BY: | JONMED KHAN  | APPROVED BY: | V.N.SONTAKKE |
| DRAWN:      | H.S.PANWAR   | SCALE:       | AS SHOWN     |
| DESIGNED:   | M.D.NAGVEKAR | DATE:        | 28-12-2024   |
| SURVEYED:   | KUMAR SURVEY |              |              |

**CONSULTANTS:**

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

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

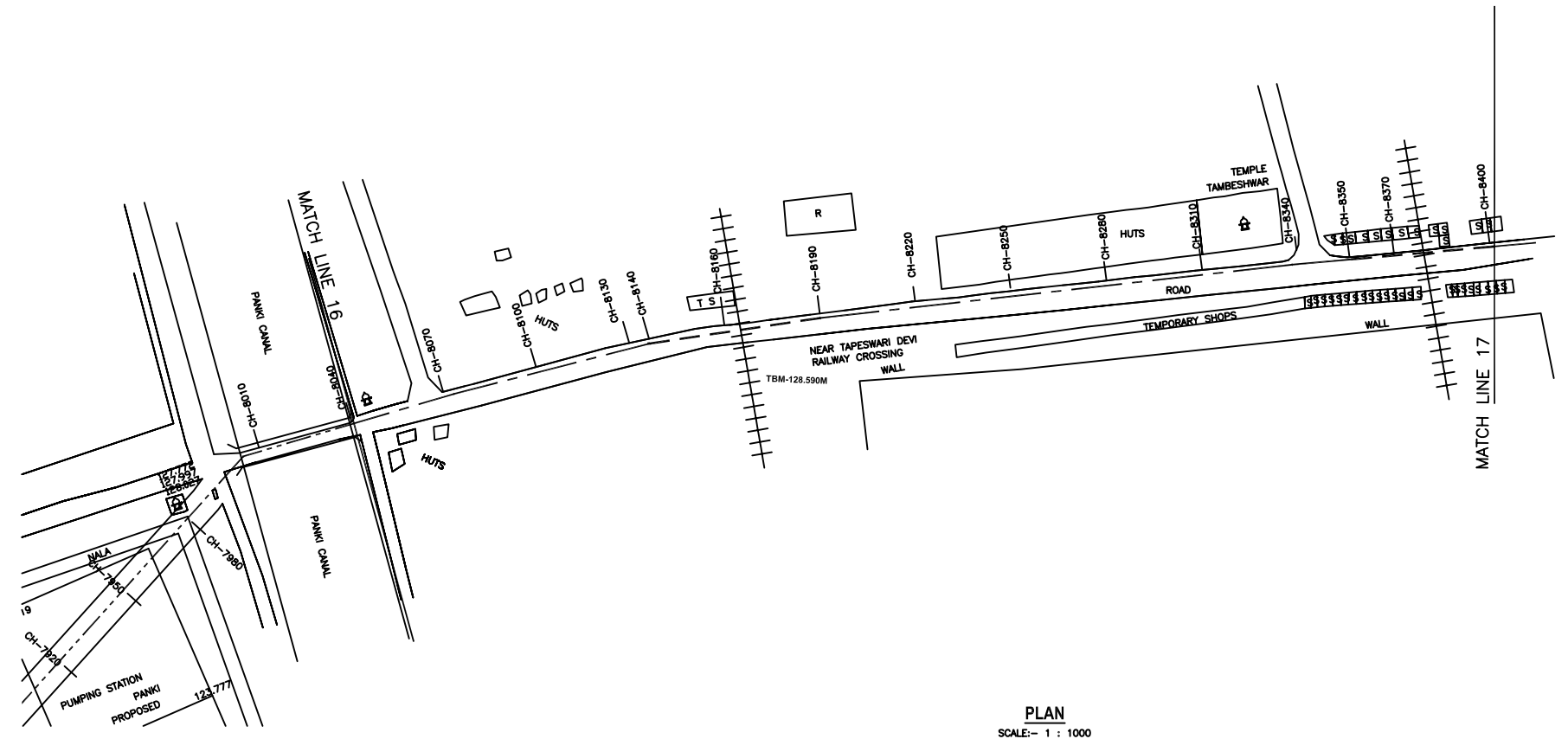
**CTI ENGINEERING INTERNATIONAL CO., LTD.**

**SHYAM SERRA PRAKASH LIMITED**

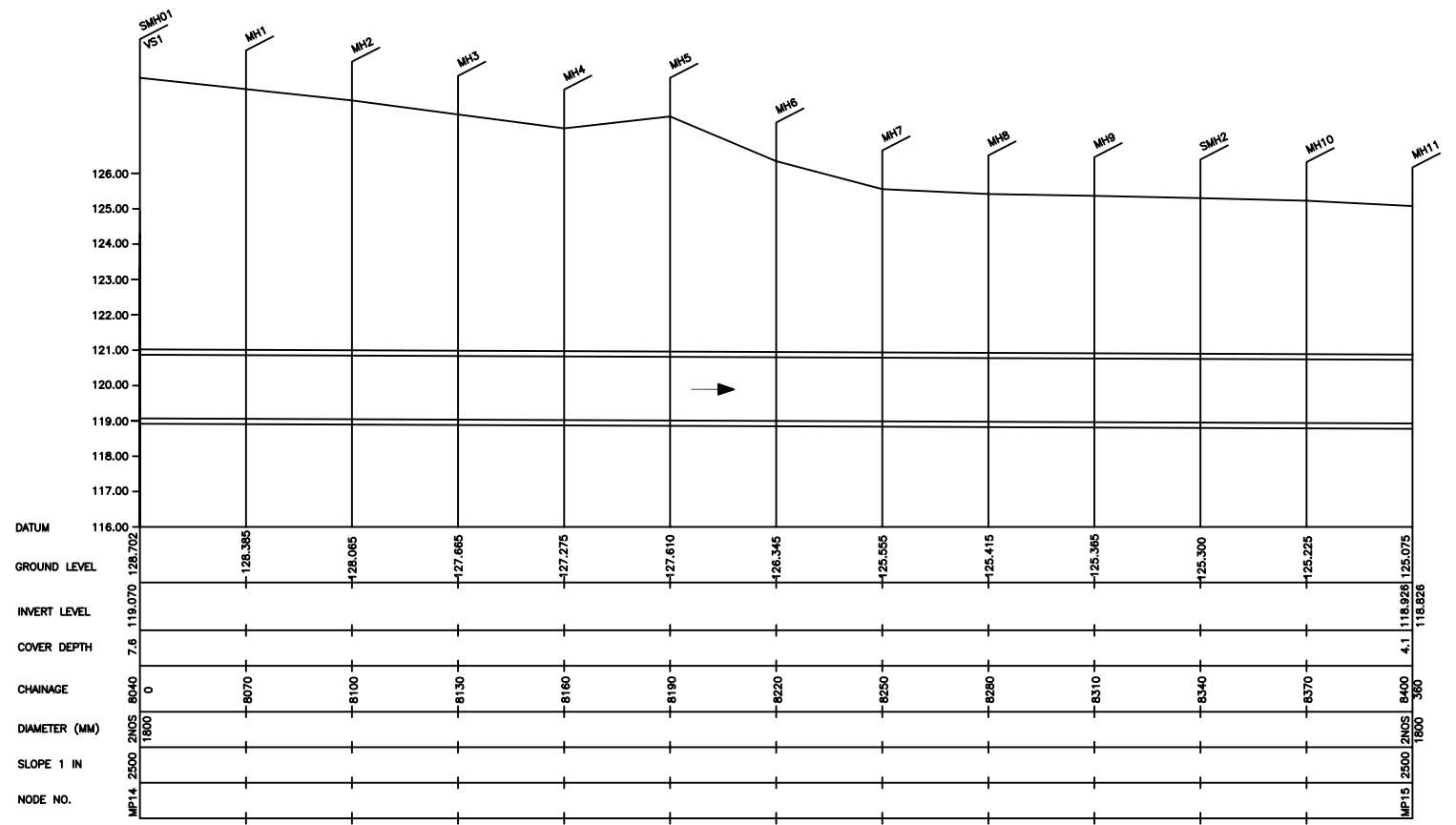
**PROJECT:**  
THE STUDY ON WATER QUALITY MANAGEMENT PLAN FOR GANGA RIVER IN THE REPUBLIC OF INDIA  
FEASIBILITY STUDY FOR KANPUR CITY

**SHEET CONTENTS:**  
PLAN AND PROFILE OF PANKI PS RISING MAIN

|             |                 |          |     |
|-------------|-----------------|----------|-----|
| DRAWING NO. | KAN-PP-MP_RM2-1 | SER. NO. | 148 |
|-------------|-----------------|----------|-----|



**PLAN**  
SCALE:- 1 : 1000



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



**NOTE:**  
1) PERMANENT BENCH MARK TAKEN FROM PANKI RAILWAY STATION AND RL IS 126.770 M.  
2) ALL THE LEVELS ARE IN METERS.

**LEGEND**

|                      |                |
|----------------------|----------------|
| TRENCHLESS           | ---            |
| PROPOSED SEWER LINE  | ----           |
| RISING MAIN          | ----           |
| ROAD                 | ----           |
| RAILWAY LINE         |                |
| BORE HOLE            | ○ BH-18        |
| ELECTRICAL POLE      | ↑              |
| PLOT BOUNDARY        | ---            |
| BUILDING             | □              |
| TEMPLE               | ⌘              |
| BRIDGE / CULVERT     | ⌘              |
| ROAD DIVIDER         | ---            |
| MOSQUE               | ⌘              |
| SPOT LEVEL           | 115.00         |
| NALLA                | ---            |
| TEMPORARY BENCH MARK | TBM-117.700 M. |
| ORDINARY MANHOLE     | MH             |
| SCRAPPER 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  
4) CATCHMENT AREA OF DISTRICT-III KAN-CA-03-1

|             |                          |              |   |      |         |
|-------------|--------------------------|--------------|---|------|---------|
| INST.       |                          |              |   |      |         |
| ELEC.       |                          |              |   |      |         |
| MECH.       |                          |              |   |      |         |
| STRU.       |                          |              |   |      |         |
| CIVIL       |                          |              |   |      |         |
| REV. NO.    | 0                        | 1            | 2 | 3    | 4       |
| REV.        | DESCRIPTION OF REVISIONS |              |   | DATE | CHECKED |
| CHECKED BY: |                          | APPROVED BY: |   |      |         |
| DRAWN       |                          | DESIGNED     |   |      |         |
| SURVEYED    |                          | DATE         |   |      |         |

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

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**SHEET CONTENTS:**  
PLAN AND PROFILE FROM PANKI SPS TO PANKA MPS (SHEET 1/7)