## **Environmental Impact Assessment**

Project Number: 43253-026

June 2019

India: Karnataka Integrated and Sustainable Water Resources Management Investment Program – Project 2

Vijayanagara Channels

Annexure 2 part 2

Prepared by Project Management Unit, Karnataka Integrated and Sustainable Water Resources Management Investment Program Karnataka Neeravari Nigam Ltd. for the Asian Development Bank. This is an updated version of the draft originally posted in June 2018 available on <a href="https://www.adb.org/India:Karnataka Integrated and Sustainable Water">https://www.adb.org/India:Karnataka Integrated and Sustainable Water</a>

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# **NOTES** 1) ALL DIMENSIONS ARE IN MILLIMETRES AND REDUCED LEVELS ARE IN METRES. 3) GRADE OF CONCRETE : BED CONCRETE. SILT TRAP SR 4500 7.s. GL 459.372 GL 459.372 -STONE PITCHING 300mm BERM GL 459.372 300 B C SOIL ▼ FSL 458.181 MURRUM FILLING 750m STRATA MET WITH 900 1320 1320 LONGITUDINAL SECTION (SCALE :100) 2000 SILT TRAP SILT TRAP 2000 200 For Approval <u>PLAN</u> (SCALE :100) 10@200mm c/c BOTH WAYS 1020 SECTION HEAD WALL (SCALE 1:50)

- 2) DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED.
- (I). CC M10 WITH 40mm DOWNSIZE METAL FOUNDATION
- (II). CC M15 WITH 40mm DOWN SIZE METAL HEAD WALLS
- (III). CC M15 WITH 20mm DOWN SIZE METAL BELOW SILT TRAP, CUT OFF WALLS, CANAL PORTION.
- (IV). CC M20 WITH 20mm DOWN SIZE METAL FOR DECK SLAB AND KERB TROUGH
- 4) SKIN REINFORCEMENT OF 10T AT 200mm C/C BOTH WAYS
- 5) MINIMUM CLEAR COVER TO THE REINFORCEMENT SHALL BE 50mm UNLESS OTHER WISE MENTIONED.
- 6) DRY STONE PITCHING IS PROVIDED WHEREVER NECESSARY.
- 7) CNS LINING IS PROVIDED WHEREVER BC SOIL



### KARNATAKA NEERAVARI NIGAM LIMITED (A GOVT. OF KARNATAKA UNDERTAKING) BANGALORE - 560 001

E I Technologies Pvt. Ltd.,

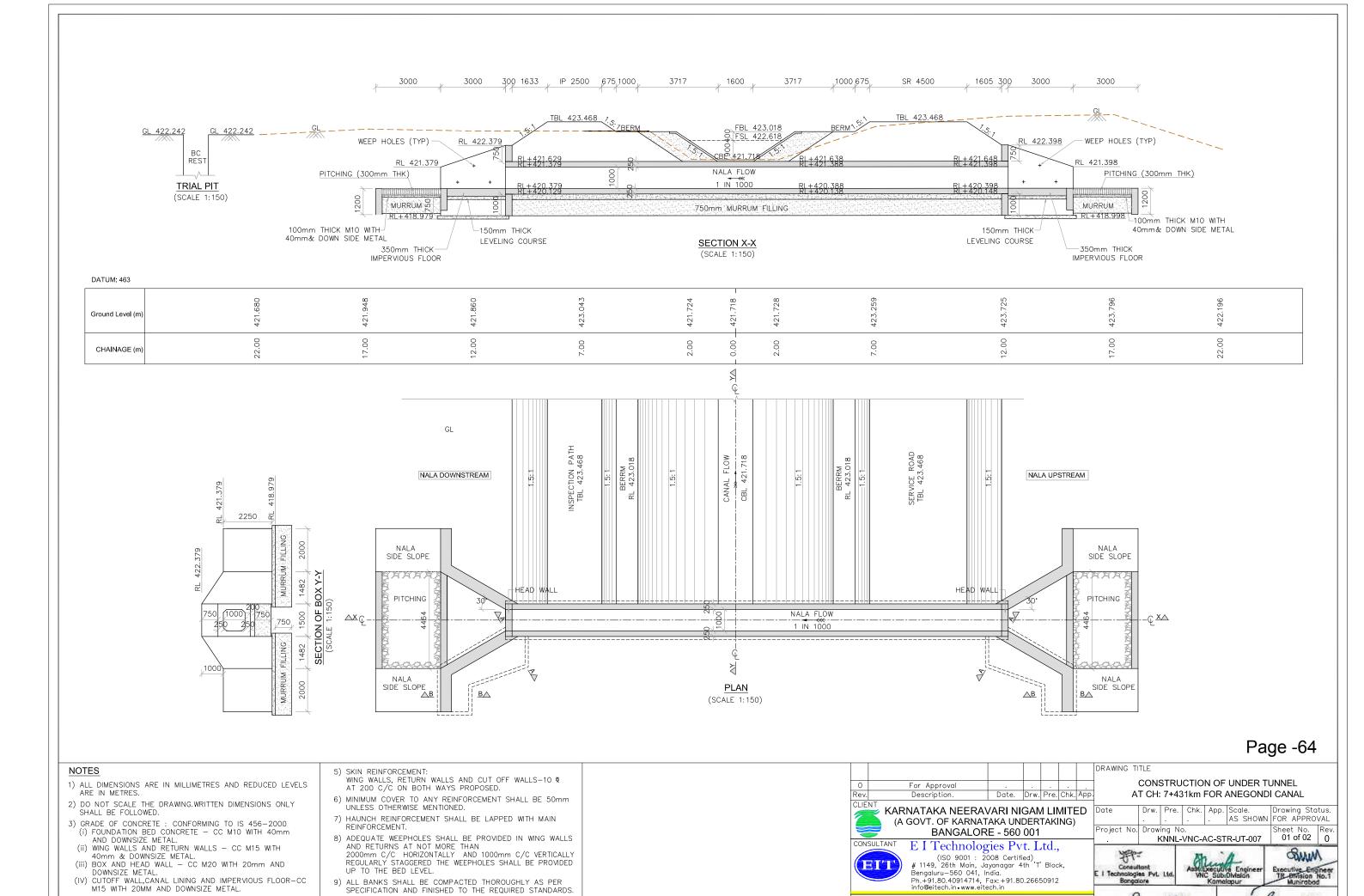
(ISO 9001 : 2008 Certified) # 1149, 26th Main, Jayanagar 4th 'T' Block, Bengaluru-560 041, India. Ph.+91.80.40914714, Fax:+91.80.26650912 info@eitech.in•www.eitech.in

### **MODERNISATION OF VIJAYANAGARA CHANNELS** IN TUNGABHADRA PROJECT

# CONSTRUCTION OF INLET AT CH: 2+385km OF HULUGI CHANNEL

| Date        | Drw. | Pre.   | Chk.  | App.  | Sco  | ıle.  | Draw | ≀ing Sta | tus. |
|-------------|------|--------|-------|-------|------|-------|------|----------|------|
|             |      |        |       |       | AS   | SHOWN | FOR  | APPRO'   | VAL  |
| Project No. | Draw | ing No | ).    |       |      |       | Shee | et No.   | Rev. |
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**MODERNISATION OF VIJAYANAGARA CHANNELS** 

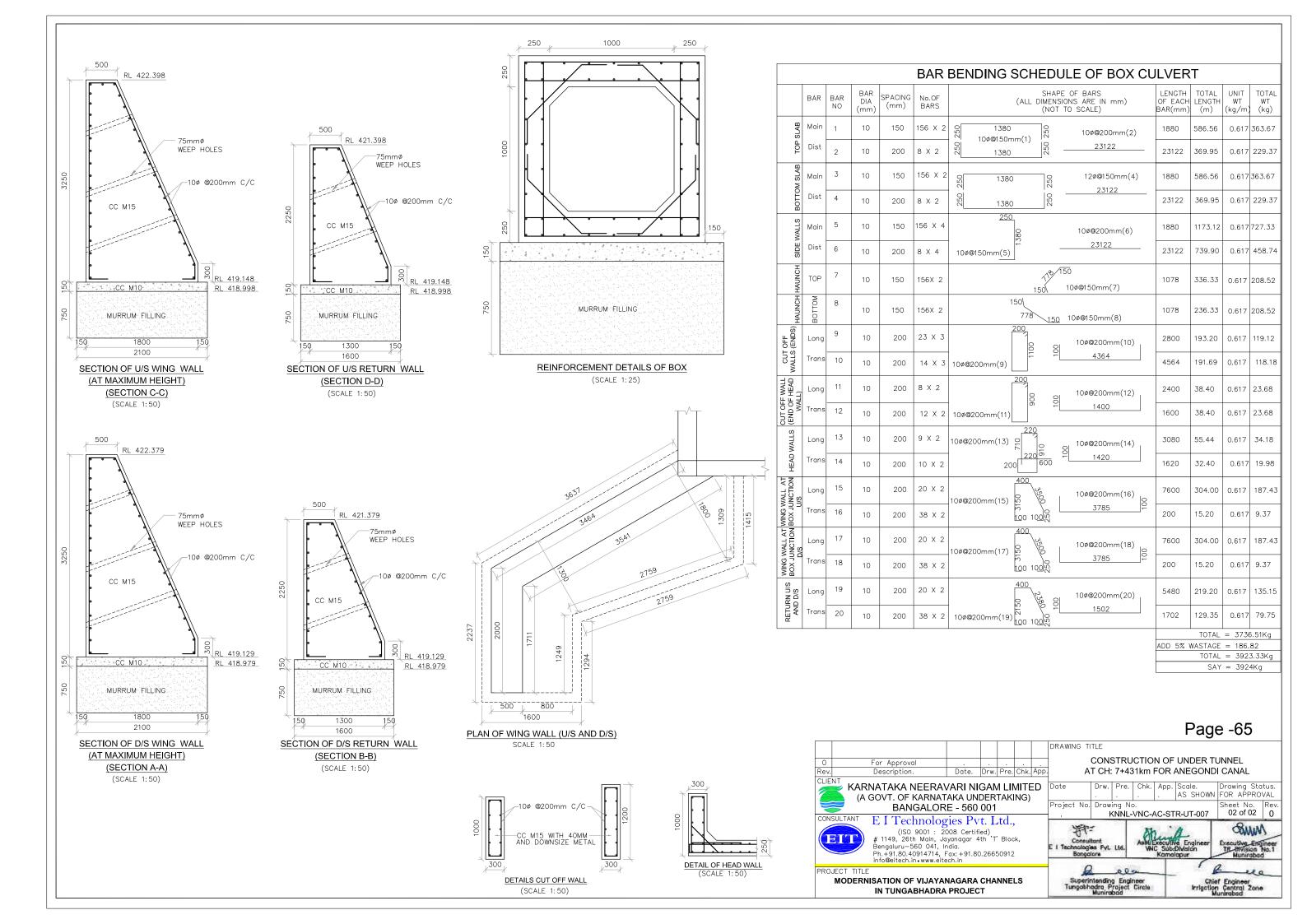
IN TUNGABHADRA PROJECT

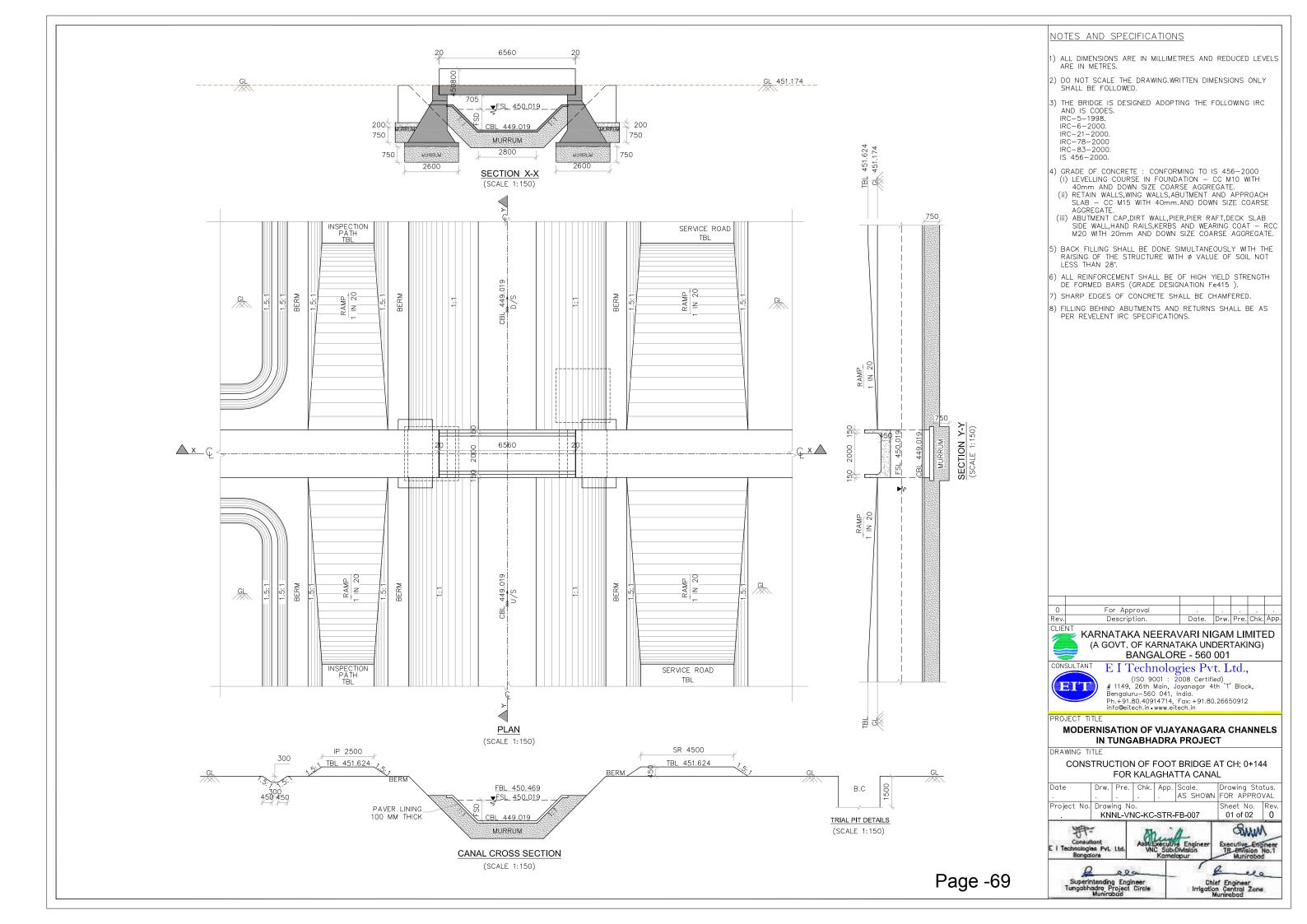
Superintending Engineer Tungabhadra Project Circle Municabad

4) REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE Fe 415 CONFORMING TO IS 1786-1985.

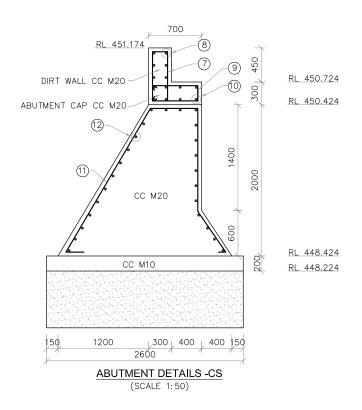
10) BED CONCRETE OF 200mm THICK IS PROVIDED BELOW THE BOX

11) DRY STONE PITCHING IS PROVIDED WHEREVER NECESSARY.

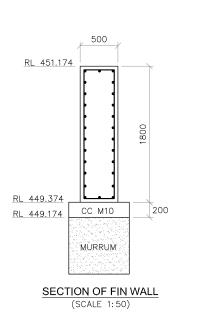




# 2000 2300 **—**(1) REINFORCEMENT DETAILS OF DECK SLAB (SCALE 1:50)

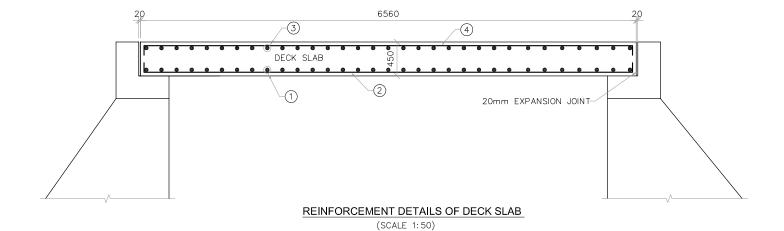


# 9 DIRT WALL & ABUTMENT CAP (SCALE 1: 25)



### SCHEDULE OF REINFORCEMENT

| меме      | BER N | BAR<br>IARK | DIA OF<br>BAR<br>(mm) | SPACING<br>OF BAR<br>(mm) | NO.OF<br>BAR | SHAPE OF BARS<br>(DIMENSION ARE IN MM)<br>(NOT TO SCALE) |     | LENGTH OF<br>EACH BAR<br>(mm) | TOTAL<br>LENGTH IN<br>METRES | UNIT<br>WEIGHT IN<br>Kg/m        | TOTAL<br>WEIGHT<br>IN Kg |
|-----------|-------|-------------|-----------------------|---------------------------|--------------|--|-----|-------------------------------|------------------------------|----------------------------------|--------------------------|
|           |       | 1           | 16                    | 140                       | 17           | 6460 (   | 1   | 6460                          | 109.820                      | 1.58                             | 173.515                  |
|           |       | 2           | 10                    | 250                       | 27           | 9L 2200  | 2   | 2400                          | 64.8                         | 0.62                             | 40.17                    |
| SLAB      |       | 3           | 16                    | 140                       | 17           | 6460 (   | 3   | 6460                          | 109.820                      | 1.58                             | 173.51                   |
|           |       | 4           | 10                    | 250                       | 28           | 2200   | 4   | 2400                          | 64.8                         | 0.62                             | 40.17                    |
| SIDE      | ALLS  | 5           | 10                    | 200                       | 34X2         | 100 100<br>800<br>100 400<br>350 350                     | 5   | 2300                          | 156.4                        | 0.62                             | 96.968                   |
| :         | >     | 6           | 10                    | 200                       | 7X2          | 6460(  | 6   | 6460                          | 90.44                        | 0.62                             | 56.07                    |
| DIRT WALL |       | 7           | 10                    | 200                       | 10X2         | 200  | 7   | 1700                          | 34                           | 0.62                             | 21.08                    |
|           |       | 8           | 10                    | 200                       | 9X2          | (  | 8   | 2200                          | 39.6                         | 0.62                             | 24.55                    |
| ABUTMENT  | AF    | 9           | 10                    | 200                       | 13X2         | 600<br>600<br>600  | 9   | 1600                          | 41.6                         | 0.62                             | 25.8                     |
| ABU       |       | 10          | 10                    | 200                       | 9X2          | (  | 10  | 2200                          | 39.6                         | 0.62                             | 24.552                   |
| ABUTMENT  |       | 11          | 10                    | 200                       | 13X2         | 600<br>1400<br>671/<br>2232<br>671/<br>100 100           | 11) | 5104                          | 132.704                      | 0.62                             | 82.27                    |
|           |       | 12          | 10                    | 200                       | 27X2         | (  | 12) | 2200                          | 118.80                       | 0.62                             | 73.65                    |
| HAUNCH    |       | 13          | 10                    | 200                       | 34X2         | 150  | 13) | 815                           | 55.42                        | 0.62                             | 34.36                    |
| WALL      |       | 14          | 10                    | 200                       | 7            | 1700 (4) 1700  |     | 4200                          | 29.4                         | 0.62                             | 18.23                    |
| Ā         |       | 15          | 10                    | 200                       | 22           | 1060 (15)  |     | 1060                          | 23.32                        | 0.62                             | 14.45                    |
|           |       |             |                       | 1                         |              |  |     |                               | 5% WAS                       | TOTAL=89<br>STAGE=44.<br>TOTAL=9 | 96                       |



### <u>NOTES</u>

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| 0    | For Approval |       |      |      |      |      |  |
|------|--------------|-------|------|------|------|------|--|
| Rev. | Description. | Date. | Drw. | Pre. | Chk. | App. |  |

### KARNATAKA NEERAVARI NIGAM LIMITED (A GOVT. OF KARNATAKA UNDERTAKING) BANGALORE - 560 001

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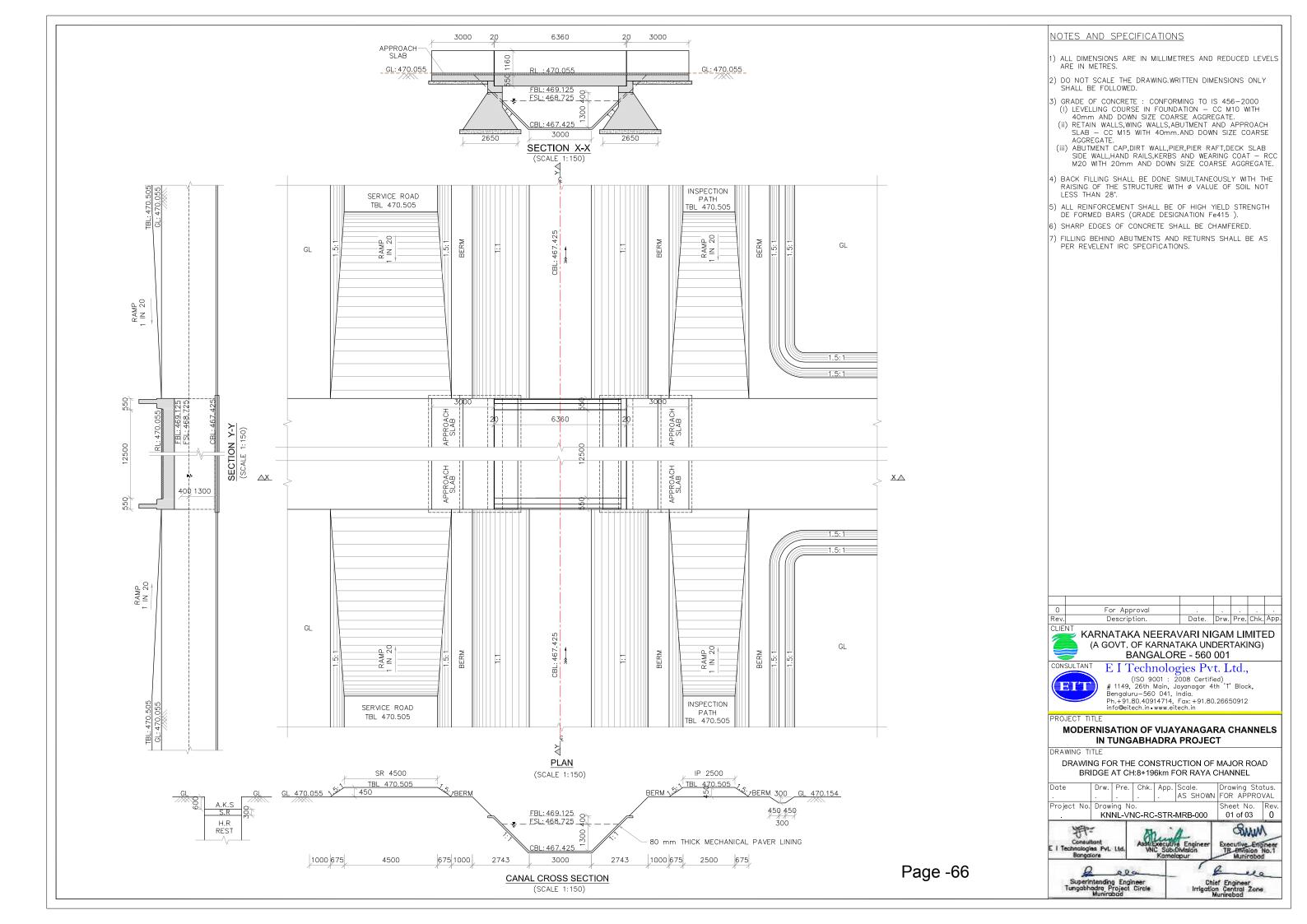
### **MODERNISATION OF VIJAYANAGARA CHANNELS** IN TUNGABHADRA PROJECT

### CONSTRUCTION OF FOOT BRIDGE AT CH: 0+144 FOR KALAGHATTA CANAL

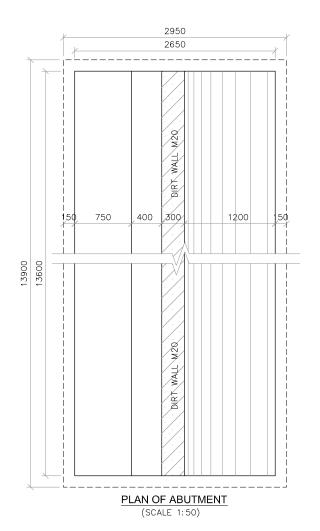
| Date        | Drw. | Pre.   | Chk.  |          |          | Drawing Sta |      |
|-------------|------|--------|-------|----------|----------|-------------|------|
|             |      |        |       | ٠.       | AS SHOWN | FOR APPRO   | VAL  |
| Project No. | Draw | ing No | ).    | •        |          | Sheet No.   | Rev. |
|             | KN   | NL-VN  | IC-KC | 02 of 02 | 0        |             |      |

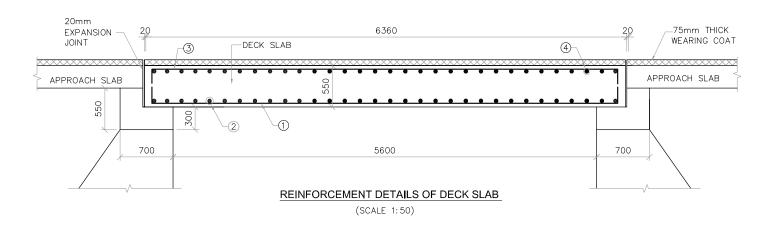


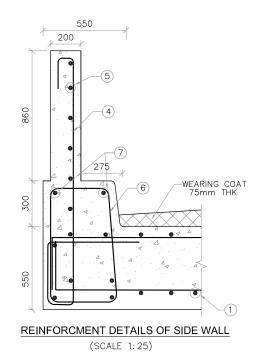


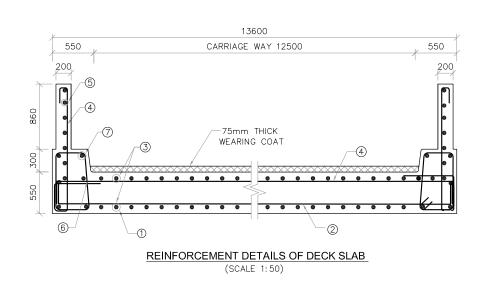


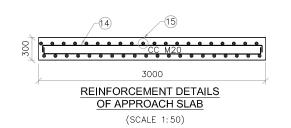
### RL 470.055 APPROACH SLAB DECK SLAB RL 469.680 RL 469.430 DIRT WALL CC M20-RL 469.130 10)-(11)-ABUTMENT CAP CC M20 RL 468.430 CC M15, 40mm RL 467.330 CC M10 RL 467.130 150 750 400 300 1200 150 2950 ABUTMENT DETAILS <u>U/S & D/S</u> (SCALE 1:50)





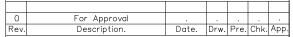






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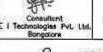


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### **MODERNISATION OF VIJAYANAGARA CHANNELS** IN TUNGABHADRA PROJECT

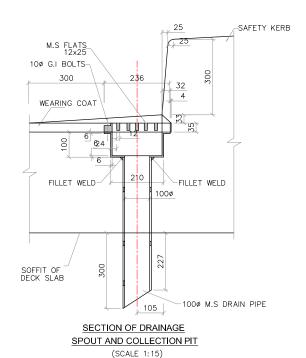
### DRAWING FOR THE CONSTRUCTION OF MAJOR ROAD BRIDGE AT CH:8+196km FOR RAYA CHANNEL

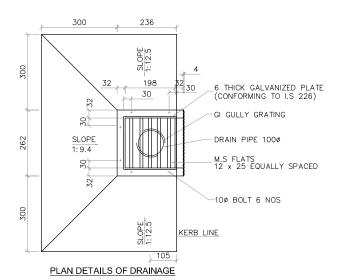
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|-------------|------|----------|------|------|-----|-------|---------|-------|------|
| Date        | Drw. | Pre.     | Chk. | App. | Scc | ıle.  | Drawing | ı Sta | tus. |
|             |      |          |      |      | AS  | SHOWN | FOR AF  | PRO'  | VAL  |
| Project No. | Draw | ing No   | ).   |      |     |       | Sheet I | No.   | Rev. |
| · -         | 1251 | KTE 3.76 |      | OTO  |     | 2 000 | 00 -    | 00    | 1 ^  |











### SPOUT AND COLLECTION PIT (SCALE 1:15) #ONE WATER SPOUT PER 20SQ.M. OF DECK AREA IS CONSIDERED ADEQUATE

### SCHEDULE OF REINFORCEMENT

| MEMBER           | BAR<br>MARK | DIA OF<br>BAR<br>(mm) | SPACING<br>OF BAR<br>(mm) | NO.OF<br>BAR | SHAPE OF BARS<br>(DIMENSION ARE IN MM)<br>(NOT TO SCALE)                    | LENGTH OF<br>EACH BAR<br>(mm) | TOTAL<br>LENGTH IN<br>METRES | UNIT<br>WEIGHT IN<br>Kg/m | TOTAL<br>WEIGHT<br>IN Kg |
|------------------|-------------|-----------------------|---------------------------|--------------|---|-------------------------------|------------------------------|---------------------------|--------------------------|
|                  | 1           | 20                    | 140                       | 98           | 9 <u>(1) po</u><br>8 6260 N   | 6660                          | 652.68                       | 2.47                      | 1609.82                  |
| _<br>            | 2           | 12                    | 150                       | 43           | ත <u>්</u> <u>ම</u> ව්  | 13800                         | 593.40                       | 0.89                      | 526.90                   |
| SLAB             | 3           | 20                    | 140                       | 98           | (3)<br>6260 00<br>87  | 6660                          | 652.68                       | 2.47                      | 1609.82                  |
|                  | 4           | 12                    | 150                       | 43           | က်<br>ကို 13500  ကို  | 13800                         | 593.40                       | 0.89                      | 526.90                   |
| SIDE<br>WALLS    | 5           | 10                    | 200                       | 33×2         | 100 <sup>100</sup> 1610 (5)<br>300 400                                      | 2760                          | 182.16                       | 0.62                      | 112.32                   |
| >                | 6           | 10                    | 200                       | 6x2          | <u>ගි</u> <u>6260</u> <u>ගි</u>   | 6560                          | 78.72                        | 0.62                      | 48.54                    |
| KERB             | 7           | 10                    | 200                       | 33x2         | 400 7<br>2<br>450 7   | 2352                          | 155.21                       | 0.62                      | 95.71                    |
| ₹                | 8           | 10                    | 200                       | 13x2         | 8<br>6260<br>951  | 6560                          | 170.56                       | 0.62                      | 105.17                   |
| DIRT WALL        | 9           | 10                    | 200                       | 69×2         | 200<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00 | 1500                          | 207.00                       | 0.62                      | 127.64                   |
| DIRT             | 10          | 10                    | 200                       | 2×2          | (i) 13500   (g  | 13800                         | 55.20                        | 0.62                      | 34.04                    |
| ABUTMENT<br>CAP  | 11          | 10                    | 200                       | 69x2         | 600<br>600<br>10  | 1800                          | 248.40                       | 0.62                      | 153.17                   |
| ABU              | 12          | 10                    | 200                       | 10x2         | <u>ගි</u> <u>13500</u> <u>(12</u> )   | 13800                         | 276.00                       | 0.62                      | 170.19                   |
| ABUTMENT         | 13          | 10                    | 200                       | 69×2         | 2094 650<br>1107 (3)<br>100 100   | 4651                          | 641.82                       | 0.62                      | 395.75                   |
| ABU              | 14          | 10                    | 200                       | 25x2         | (14)<br>(2) 13500 (19)  | 13800                         | 690.00                       | 0.62                      | 425.47                   |
| DACH<br>AB       | 15          | 12                    | 150                       | 91x4         | 2900 1 <u>6</u>   | 3100                          | 1128.4                       | 0.89                      | 1001.94                  |
| APPROACH<br>SLAB | 16          | 10                    | 150                       | 22×4         | <u>8</u> 13500 8<br>(6)   | 13700                         | 1205.6                       | 0.62                      | 743.39                   |
|                  |             |                       |                           |              |   |                               | TO                           | TAL = 76                  | 86.75 kg                 |

TOTAL = 7686.75 kg 5% WASTAGE = 384.34 kg TOTAL = 8071.09 kg SAY = 8100 kg

### <u>NOTES</u>

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- 2) DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED.

| 0   | For Approval |       |      |      |      |      |
|-----|--------------|-------|------|------|------|------|
| ev. | Description. | Date. | Drw. | Pre. | Chk. | Арр. |

### KARNATAKA NEERAVARI NIGAM LIMITED (A GOVT. OF KARNATAKA UNDERTAKING) BANGALORE - 560 001

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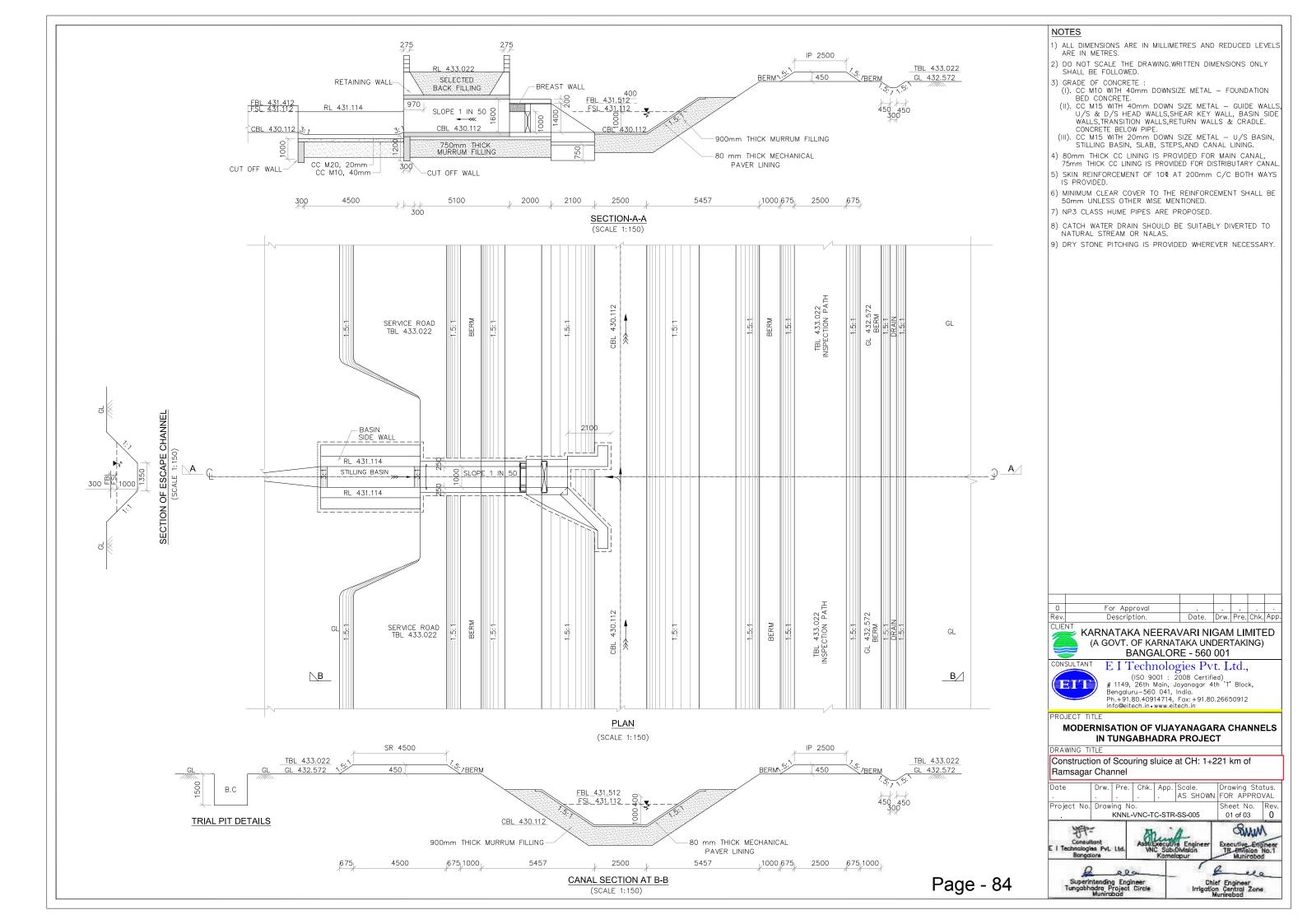
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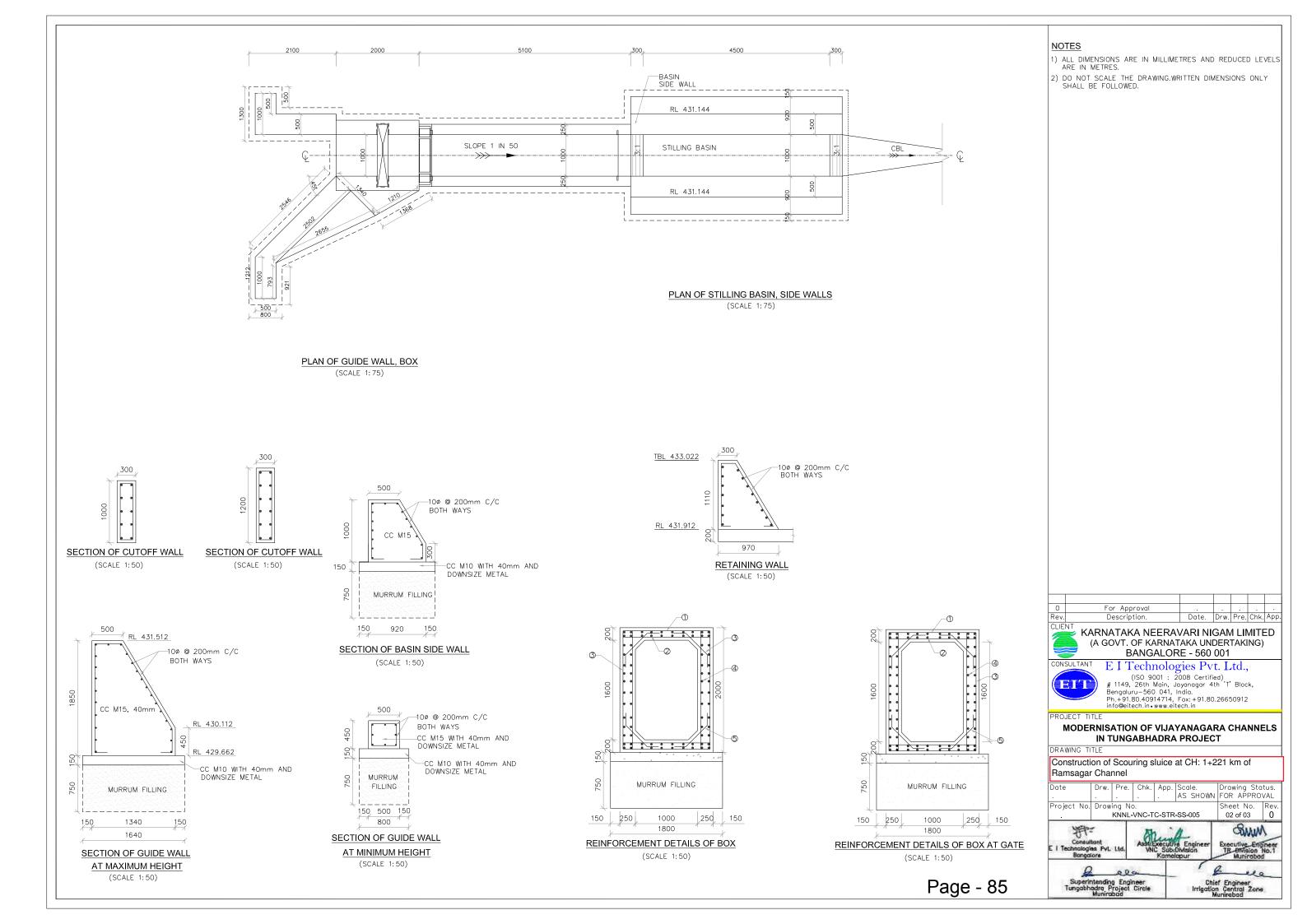
### **MODERNISATION OF VIJAYANAGARA CHANNELS** IN TUNGABHADRA PROJECT

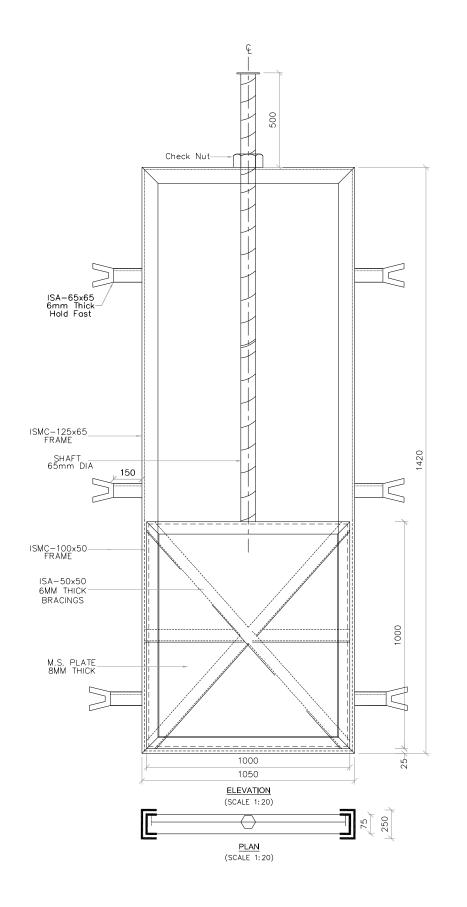
DRAWING FOR THE CONSTRUCTION OF MAJOR ROAD BRIDGE AT CH:8+196km FOR RAYA CHANNEL

| Date        | Drw. | Pre.   | Chk.     |          | Drawing Sta |      |
|-------------|------|--------|----------|----------|-------------|------|
|             |      |        |          | AS SHOWN | FOR APPRO   | VAL  |
| Project No. | Draw | ing No | ٥.       |          | Sheet No.   | Rev. |
|             | KN   | NL-VN  | 03 of 03 | 0        |             |      |









| SL.<br>NO. | ITEMS                                  | UNIT | DIMENSION | WT/.M<br>(kg/sqm) | TOTAL WT. (kg) |
|------------|--|------|-----------|-------------------|----------------|
| 1          | ISMC-125 X 65 FRAME                    | RMT  | 4.95      | 12.70             | 62.86          |
| 2          | ISMC-100 X 50 FRAME                    | RMT  | 4.00      | 9.20              | 36.80          |
| 3          | ISA-5050; 6MM THICK.<br>FOR BRACINGS.  | RMT  | 3.83      | 4.50              | 17.24          |
| 4          | ISA-6565; 6MM THICK.<br>FOR HOLD-FASTS | RMT  | 1.80      | 5.80              | 10.44          |
| 5          | M.S. PLATE<br>8MM THICK                | SQM  | 1.00      | 62.80             | 62.80          |
| 6          | SHAFT 65MM Ø<br>M.S.                   | RMT  | 0.9       | 26.05             | 23.44          |
| 7          | CHECK NUT M.S.                         | NO.  | 1.00      | 4.00              | 4.00           |
| 8          | WHEEL M.S.                             | NO.  | 1.00      | 30.00             | 30.00          |

TOTAL Wt. = 247.580 Kgs SAY = 248.000 Kgs = 0.248 MT

### SCHEDULE OF REINFORCEMENT FOR BOX

| MEMBER |   | DIA OF<br>BAR<br>(mm) | SPACING<br>OF BAR<br>(mm) | NO.OF<br>BAR | SHAPE OF BARS<br>(DIMENSION ARE IN MM)<br>(NOT TO SCALE) |     | LENGTH OF<br>EACH BAR<br>(mm) | LLENICTH IN | UNIT<br>WEIGHT IN<br>Kg/m | TOTAL<br>WEIGHT<br>IN Kg |
|--------|---|-----------------------|---------------------------|--------------|--|-----|-------------------------------|-------------|---------------------------|--------------------------|
| ВОХ    | 1 | 12                    | 150                       | 35X4         | 1400<br>[100 100]  | 1   | 1600                          | 224.00      | 0.888                     | 197.120                  |
|        | 2 | 10                    | 200                       | 8X4          | 5100   | (2) | 5100                          | 163.20      | 0.620                     | 101.18                   |
| WALLS  | 3 | 12                    | 150                       | 35X4         | 150  | 3   | 2200                          | 80.00       | 0.888                     | 271.04                   |
| SIDE W | 4 | 10                    | 200                       | 11X4         | 150  | 4   | 5000                          | 220.00      | 0.620                     | 136.40                   |
| HAUNCH | 5 | 10                    | 150                       | 35X4         | 2 <u>00</u> 1 <sup>38</sup>  200                         | (5) | 1790                          | 250.60      | 0.620                     | 155.372                  |

TOTAL=861.112 Kg 5% WASTAGE=43.06 Kg GRAND TOTAL=904.172 Kg SAY=905 Kg

### SCHEDULE OF REINFORCEMENT FOR BOX AT GATE

| MEMBER |   | DIA OF<br>BAR<br>(mm) | SPACING<br>OF BAR<br>(mm) | NO.OF<br>BAR | SHAPE OF BARS<br>(DIMENSION ARE IN MM)<br>(NOT TO SCALE) |     | LENGTH OF<br>EACH BAR<br>(mm) |        | UNIT<br>WEIGHT IN<br>Kg/m | TOTAL<br>WEIGHT<br>IN Kg |
|--------|---|-----------------------|---------------------------|--------------|--|-----|-------------------------------|--------|---------------------------|--------------------------|
| ВОХ    | 1 | 12                    | 150                       | 14X4         | 1400<br>[100 100]  | 1)  | 1600                          | 89.60  | 0.888                     | 79.56                    |
|        | 2 | 10                    | 200                       | 8X4          | 2000   | (5) | 2000                          | 64.00  | 0.620                     | 39.68                    |
| WALLS  | 3 | 12                    | 150                       | 14X4         | 150<br>1900  | 3   | 2200                          | 123.20 | 0.888                     | 109.40                   |
| SIDE W | 4 | 10                    | 200                       | 11X4         | 150  | 4   | 1900                          | 83.60  | 0.620                     | 51.83                    |
| HAUNCH | 5 | 10                    | 150                       | 14X4         | 200 38 1200  | (5) | 1790                          | 100.24 | 0.620                     | 62.15                    |
|        |   |                       |                           |              |  |     |                               |        |                           |                          |

TOTAL=342.62 Kg 5% WASTAGE=17.13 Kg GRAND TOTAL=359.751 Kg SAY=360 Kg

### <u>NOTES</u>

1) ALL DIMENSIONS ARE IN MM AND REDUCED LEVELS ARE IN METRES. 2) DRAWING SHALL NOT BE SCALED OR MEASURED.

For Approval Description. CLIEN.

KARNATAKA NEERAVARI NIGAM LIMITED
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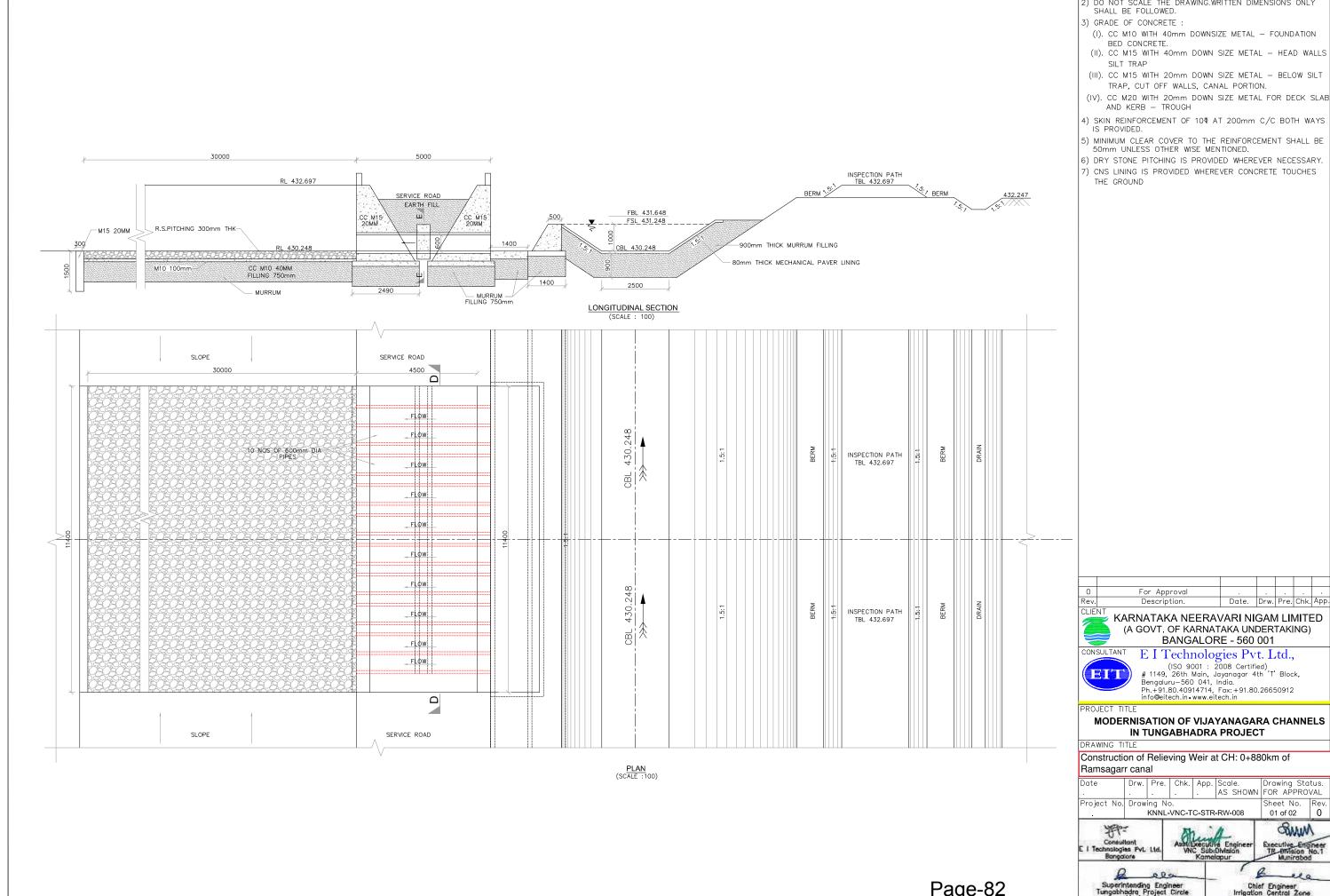
PROJECT TITLE

MODERNISATION OF VIJAYANAGARA CHANNELS IN TUNGABHADRA PROJECT

Construction of Scouring sluice at CH: 1+221 km of Ramsagar Channel

Drw. Pre. Chk. App. Scale. Drawing Status.
. AS SHOWN FOR APPROVAL Sheet No. Rev 03 of 03 0 KNNL-VNC-TC-STR-SS-005





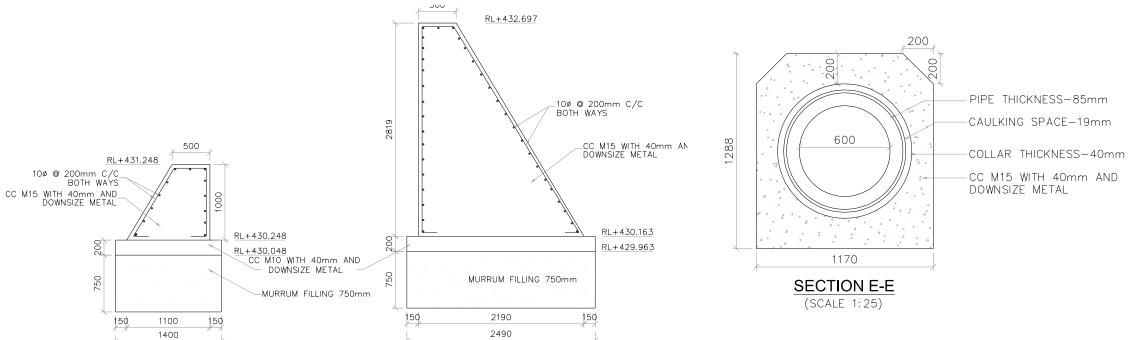
### NOTES

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- 2) DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED.



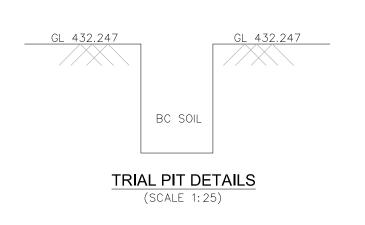
Superintending Engineer Tungabhadra Project Circle Municabad

### -PIPE THICKNESS-85mm 600ø 600¢ -600mm Ø NP3 CLASS PIPE \_CC M15 WITH 40mm AND DOWNSIZE METAL 9890 SECTION D-D (SCALE 1:50)



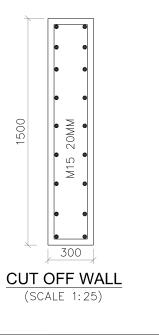
SECTION OF HEAD WALL

(SCALE 1:50)



SECTION OF RELIEVING WALL

(SCALE 1:50)



**NOTES** 

1) ALL DIMENSIONS ARE IN MILLIMETRES AND REDUCED LEVELS ARE IN METRES. 2) DO NOT SCALE THE DRAWING.WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED.

For Approval

CLIENT KARNATAKA NEERAVARI NIGAM LIMITED (A GOVT. OF KARNATAKA UNDERTAKING) BANGALORE - 560 001

CONSULTANT 

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**MODERNISATION OF VIJAYANAGARA CHANNELS** IN TUNGABHADRA PROJECT

Construction of Relieving Weir at CH: 0+880km of Ramsagarr canal Date

Pre. Chk. App. Scale. Drawing Status.
. AS SHOWN FOR APPROVAL Project No. Drawing No Sheet No. Re KNNL-VNC-TC-STR-RW-008 02 of 02 SWWV)

Superintending Engineer Tungabhadra Project Circle Municabad