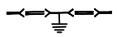
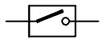
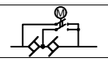
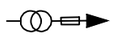
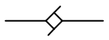
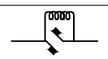
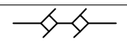
LEGENDS:

Sl.No.	SYMBOLS	DESCRIPTION
1		SHORT NEUTRAL SECTION (PTFE)
2		INTERRUPTER (BM)
3		CIRCUIT BREAKER (CB)
4		MOTORIZED DP ISOLATOR
5		POTENTIALTRANSFORMER (PT)
6		SUB SECTIONING AND PARALLELING POST (SSP)
7		SECTIONING AND PARALLELING POST (SP)
8		SUB SECTIONING POST (SS)
9		FEEDING POST (FP)
10		SECTION INSULATOR (SI)
11		MOTORISED ISOLATOR (SM)
12		ISOLATOR (SM)
13		BOOSTER TRANSFORMER (BT)
14		LIGHTNING ARRESTOR (LA)
15		CAPACITIVE VOLTAGE SENSOR (CS)
16		INSULATED OVERLAP (IOL)
17		UN-INSULATED OVERLAP (UIOL)
18		ANTICREEP CENTER (ACC)
19	NO	NORMALLY OPEN
20	NC	NORMALLY CLOSED
21		DOUBLE SECTION INSULATOR (SI)
22		TRAMWAY OHE

Notes:-

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. THE SECTIONING DIAGRAM HAS BEEN REVISED ACCORDING TO ALIGNMENT PLAN AS SHARED BY GC/KRIDE ON 22-06-2024 BY EMAIL.
4. CHAINAGES MARKED FOR FP / SSP / SS ARE TENTATIVE AND WITH RESPECT TO LATEST ALIGNMENT DRAWING AS MENTIONED ABOVE.
5. SRJ CHAINAGES ARE MARKED WITH REFERENCE TO ABOVE MENTIONED LATEST ALIGNMENT DRAWINGS.
6. EQUIPMENT SHALL BE NUMBERED AFTER THE APPROVAL OF SECTIONING DIAGRAM & NUMBERING SCHEME FROM GC/K-RIDE.
7. LOCATIONS OF IOL / UIOL IN THE SECTIONING DIAGRAM ARE TENTATIVE & WILL BE FINAILIZED AFTER THE COMPLETION OF PEGGING PLAN.
8. IN CORRIDOR-2, AT FOLLOWING PLACES INTERLINKING WITH DIFFERENT CORRIDORS IS OBSERVED AS PER GENERAL ARRANGEMENT DRAWING.
   - **LOC. 21+710 & 21+775 (CROSS OVER BETWEEN C4 & C2) :** IN NORMAL SCENARIO, **BENNIGANAHALLI** STATION OF CORRIDOR-2 SHALL BE FED FROM CORRIDOR-4, THROUGH THIS CROSSOVER UP TO PTFE NEUTRAL SECTION (CH: 0+215).
     IN EXIGENCY CASES (N-1 SCENARIO), FEED SHALL BE EXTENDED TO EITHER SIDE OF PTFE THROUGH THE INTERRUPTER(BM).THE CROSSOVER SHALL REMAIN AS A NORMAL CROSSOVER & INTER MOVEMENT OF ROLLING STOCK IS NOT RESTRICTED.
   - **LOC. NEAR CROSS OVER FROM C-4 TO C-1 :** AS PER THE SECTIONING DIAGRAM, CROSSOVER SHALL HAVE PROVISION WITH DOUBLE POLE ISOLATOR WITH TWO SECTION INSULATOR, FOLLOWED BY TWO NO'S OF IOL WITH BM (EITHER SIDE OF CROSSOVER) IN CORRIDOR-1.
     IN NORMAL SCENARIO, CROSS OVER SHALL BE FED FROM TWO DIFFERENT CORRIDORS TILL THE POINT OF DP ISOLATOR. THE CROSSOVER SHALL REMAIN AS AN EMERGENCY CROSSOVER. INTRA MOVEMENT OF ROLLING STOCK IS RESTRICTED.
9. FOR CORRIDOR 1 & 2 SECTIONING DIAGRAM REFER SEPARATE DRAWING.
10. EACH ELEMENTARY SECTION MUST BE SENSED BY PT / CS ALONG WITH LA.
11. AT FEEDING POST, SP & AT NEUTRAL SECTION LOCATIONS, PT SHALL BE PROVIDED, CS AT OTHER LOCATIONS.
12. BENNIGANAHALLI STATION OF C-2 SHALL BE FED FROM THE RSS PRESENT IN C-4 (BENNIGANAHALLI) UPTO PTFE (CHAIANGE: 0+215.00)

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R0	23-08-2024	First Submission	IA / SB	CK / NP	RK / SK

K RIDE

DM / ELE / KRIDE	Sr. DGM / ELE / KRIDE	AGM / ELE / KRIDE

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EGIS-AECOM-WSP

Senior Discipline Expert	Chief Discipline Expert	Project Director

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Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP

SYSTRA MVA CONSULTING (INDIA) PVT. LTD.
10th and 11th Floor, Tower-B, 12/3, Vatika Mindscapes, Mathura Road, NH2, Sector 27D, Faridabad, Haryana 121013

Drawn	Checked:	Approved:
I. Alam	D. Kalyan	R. Kapoor
S. Bhati	N. Parmar	S. Kumar

Client: RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

Corridor-4 (Pro.Heelalige -Rajankunte)

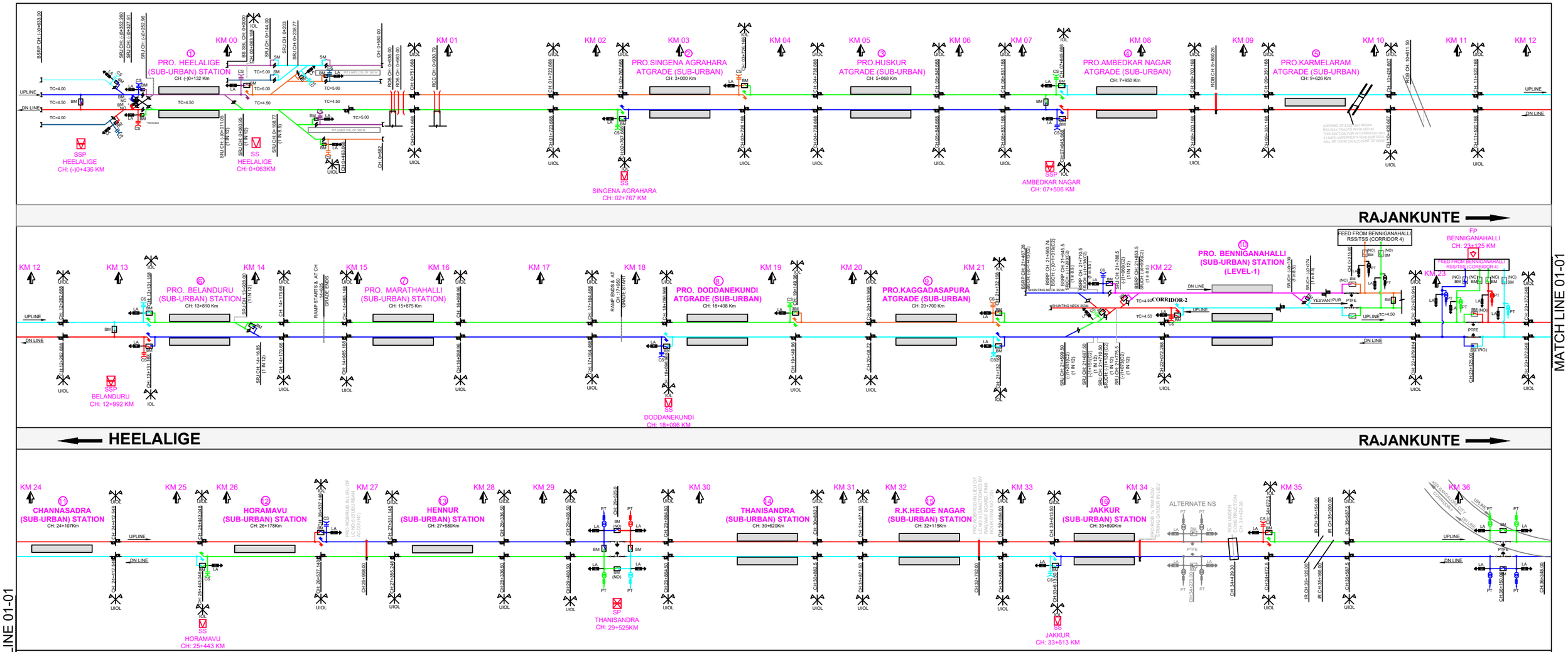
Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 1 of 14)

Project Stage: Tender Drawing

Paper Size:	Discipline:	Date:	Scale:
A3	Power Supply & Traction System	23/08/2024	NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002

Revision: R2



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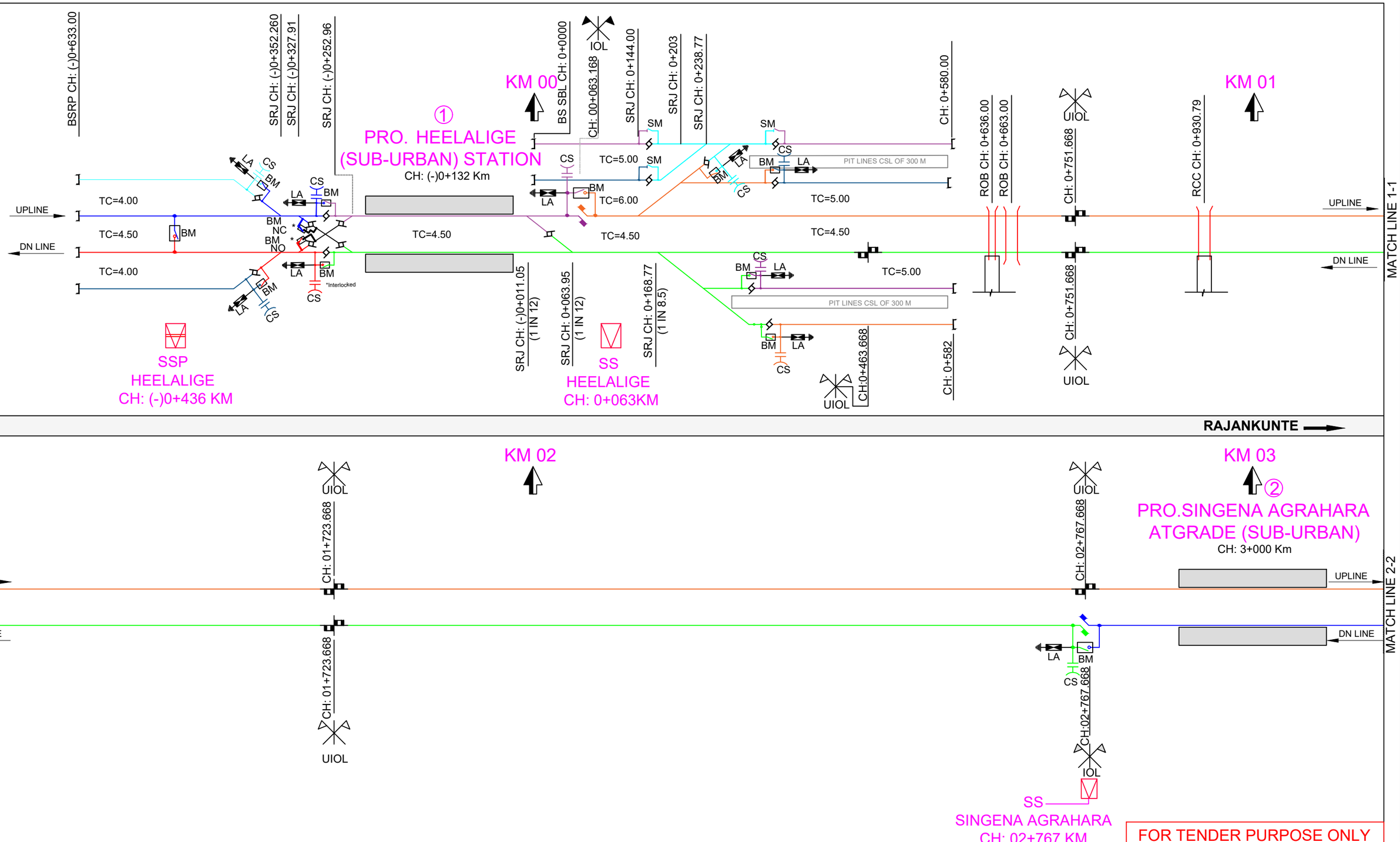
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 2 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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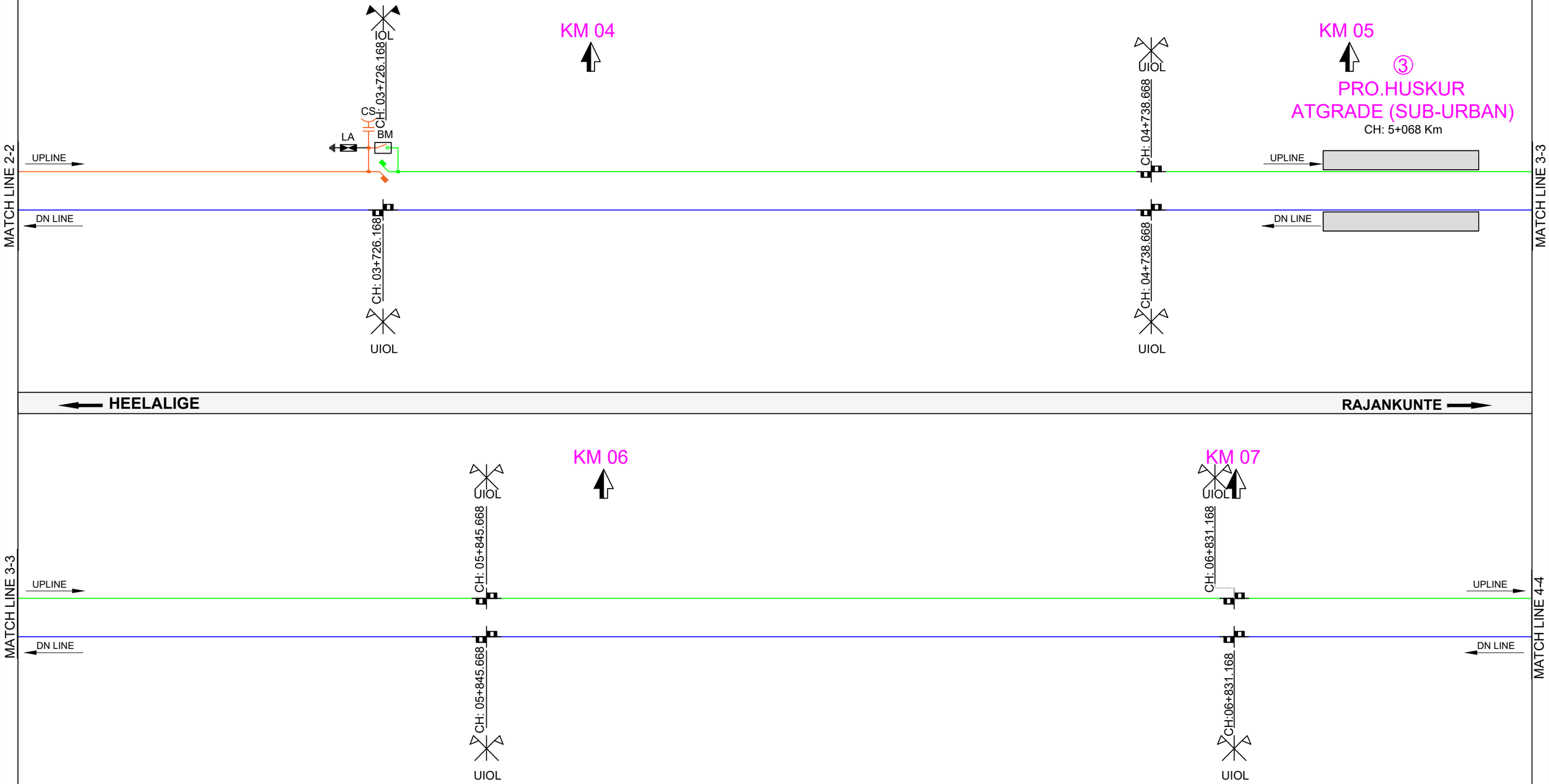
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 3 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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Client: RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

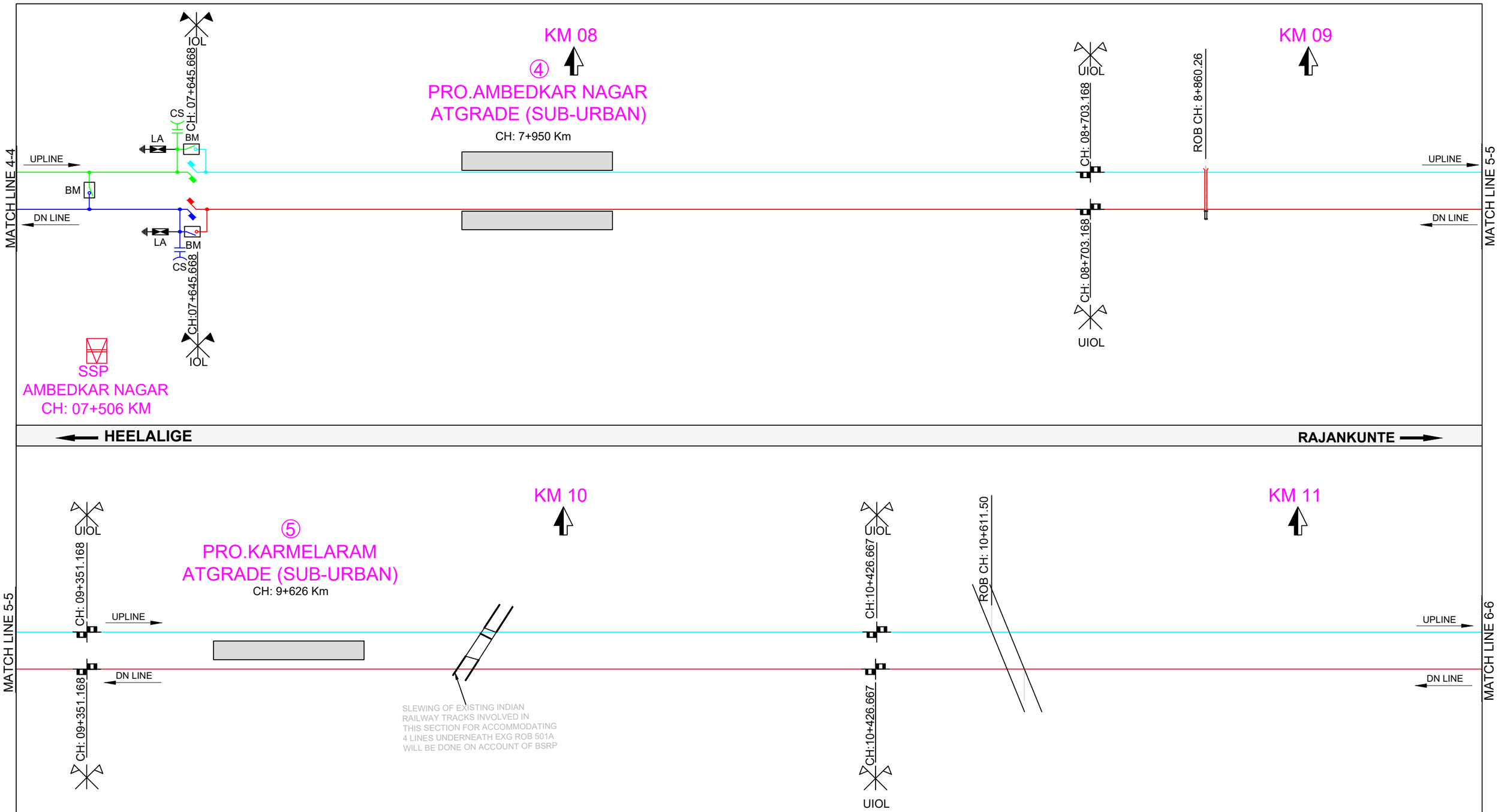
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 4 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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Project Title: Bengaluru Suburban Rail Project (BSRP)
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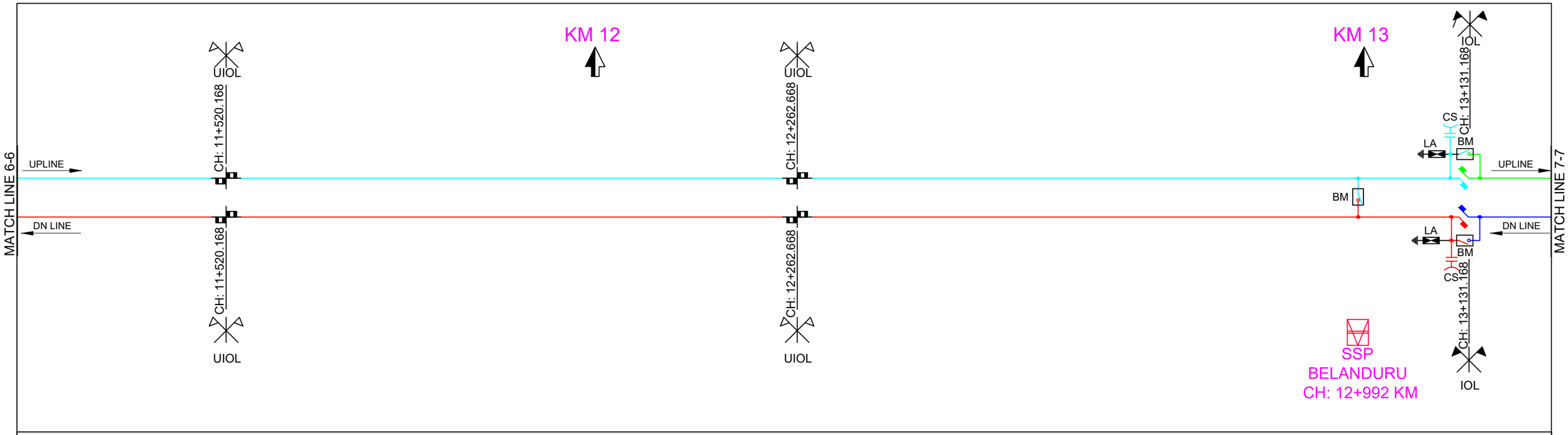
Corridor-4 (Pro.Heelalige -Rajankunte)

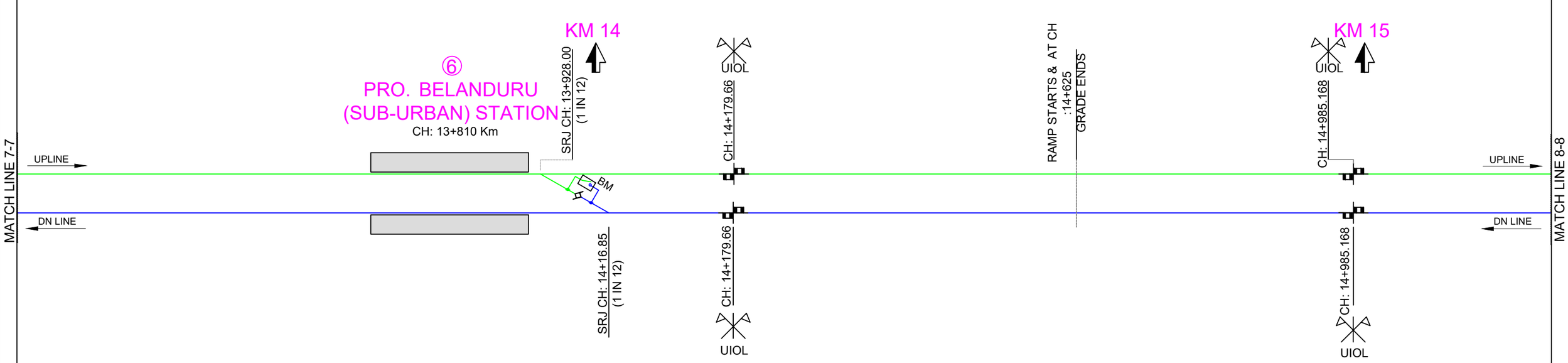
Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 5 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2





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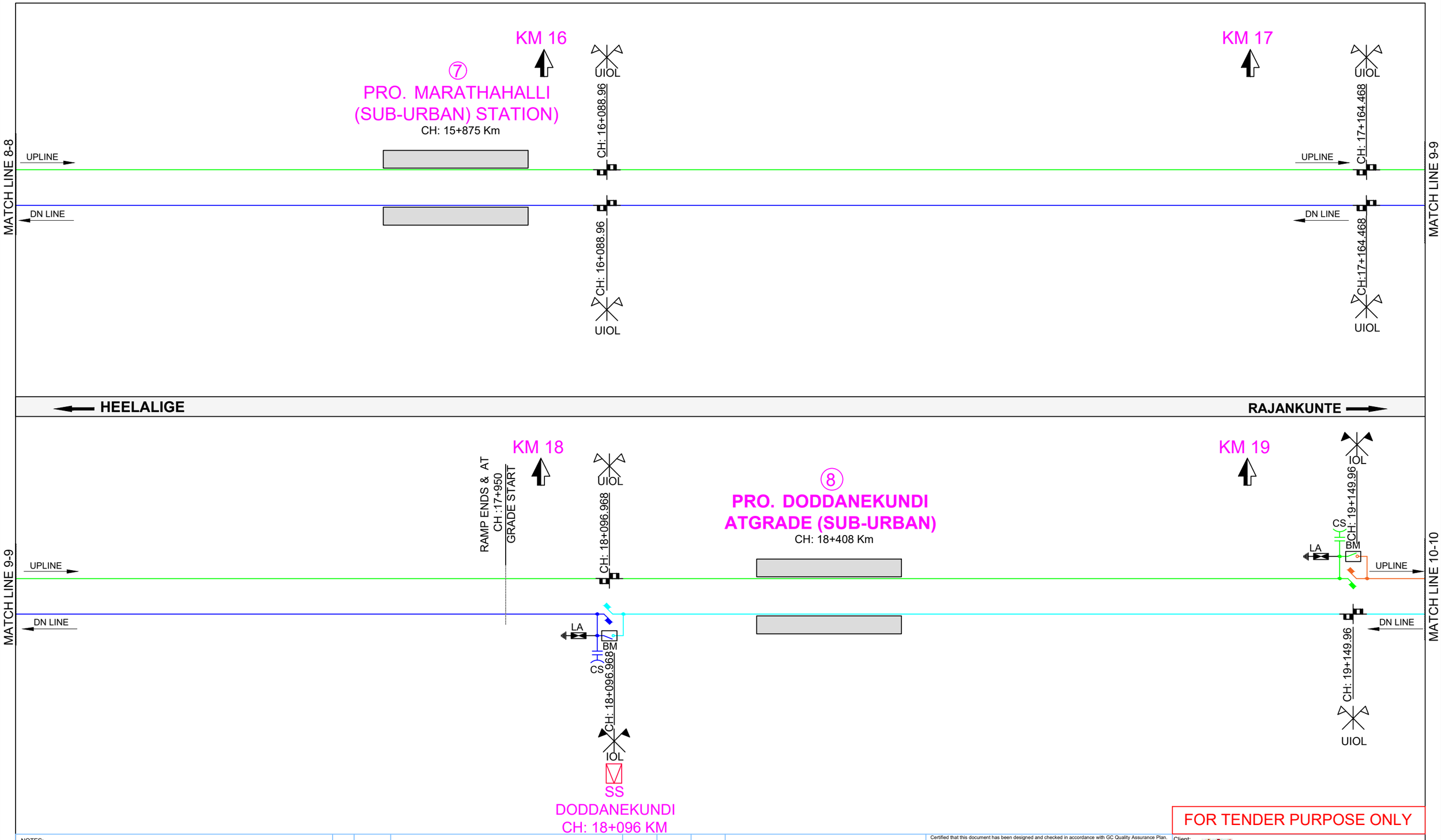
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 6 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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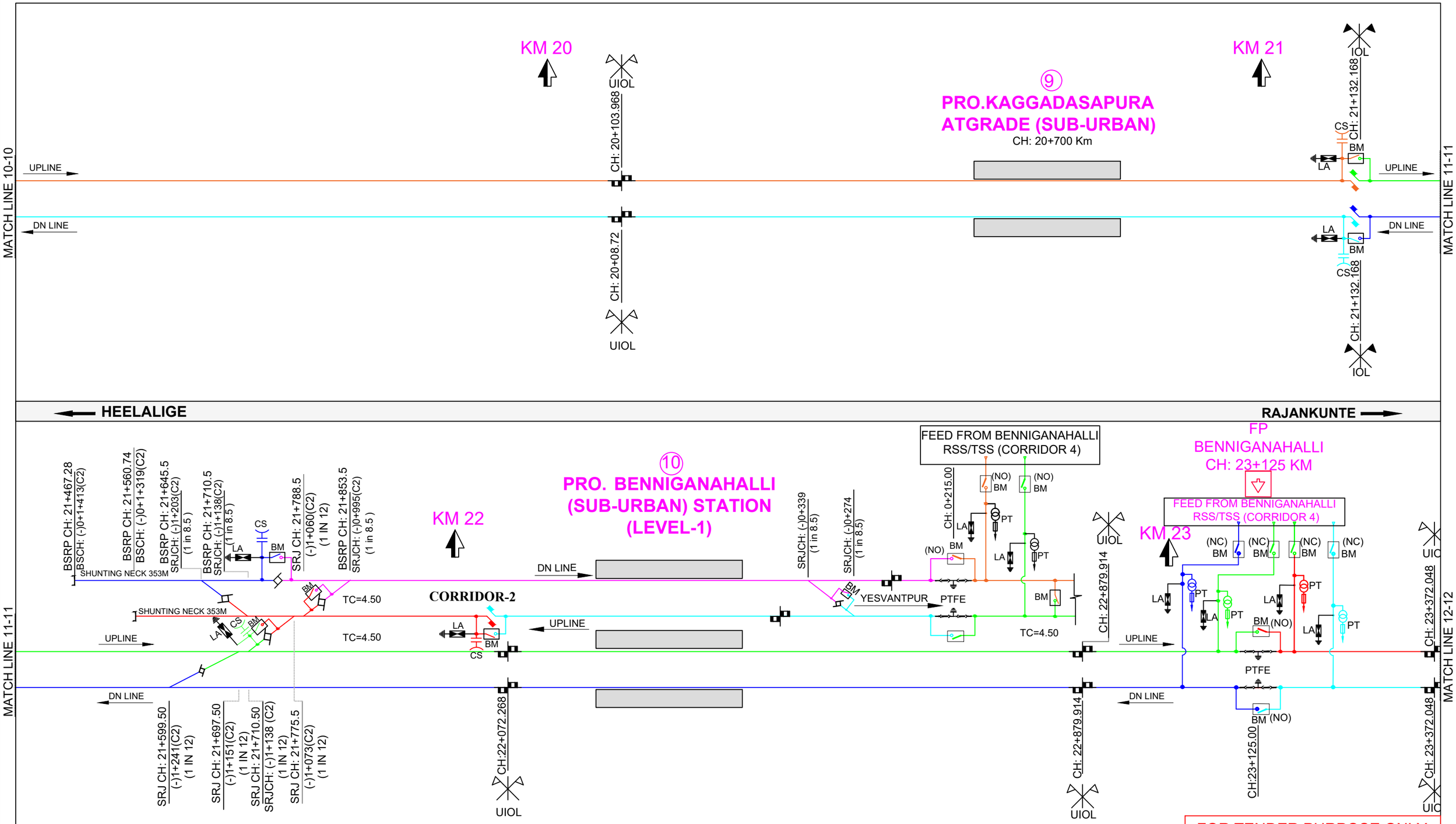
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 7 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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R0	23-08-2024	First Submission	IA / SB	CK / NP	RK / SK

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EGIS-AECOM-WSP

Senior Discipline Expert	Chief Discipline Expert	Project Director

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Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP

SYSTRA MVA CONSULTING (INDIA) PVT. LTD.
10th and 11th Floor, Tower-B, 12/3, Vatika Mindscapes, Mathura Road, NH2, Sector 27D, Faridabad, Haryana 121013

Drawn	Checked:	Approved:
I. Alam	D. Kalyan	R. Kapoor
S. Bhati	N. Parmar	S. Kumar

Client: RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

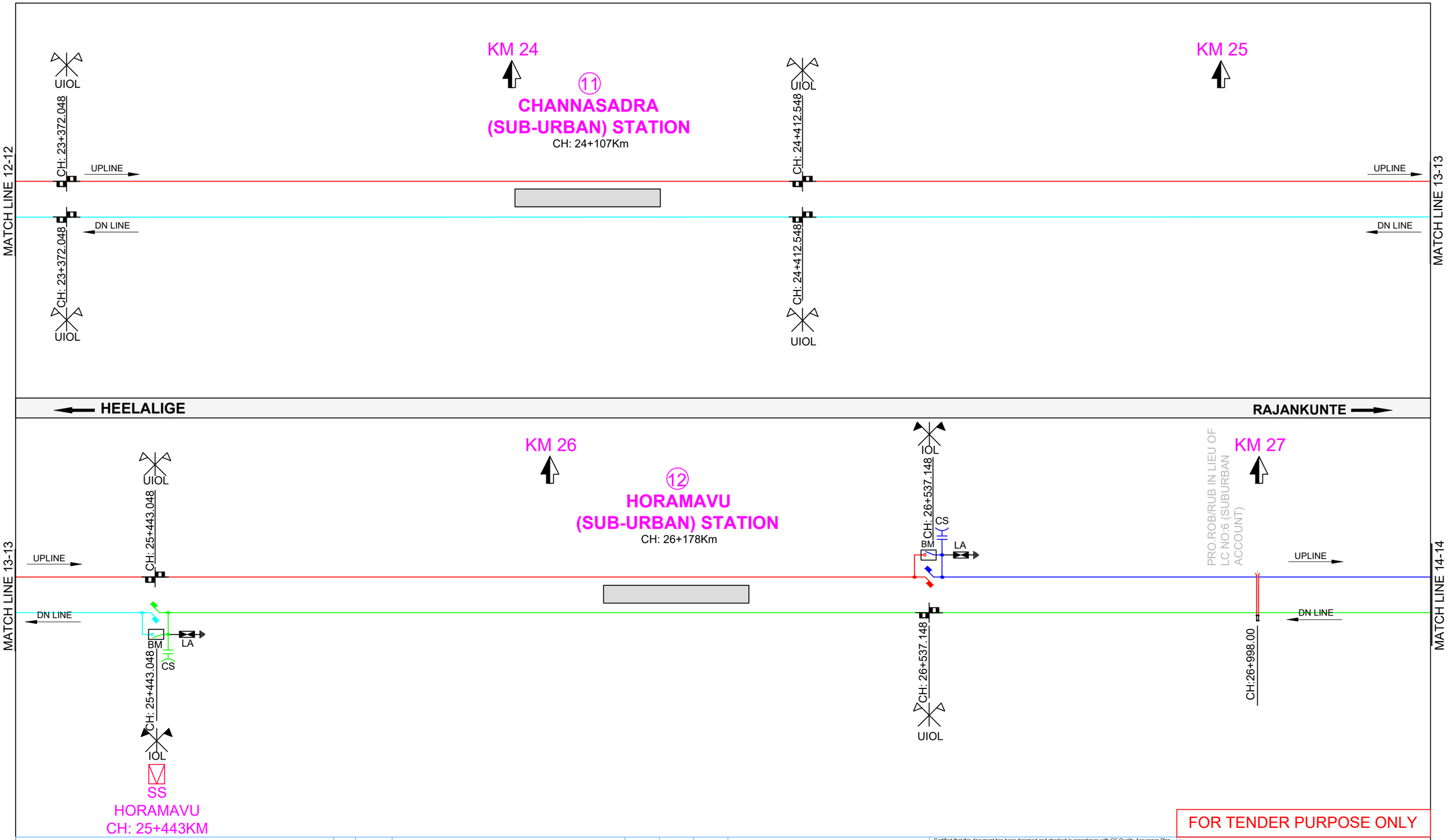
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 8 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 9 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2

MATCH LINE 14-14

MATCH LINE 15-15

KM 28

KM 29

UIOL

CH: 27+311.148

⑬

HENNUR

(SUB-URBAN) STATION

CH: 27+580Km

UPLINE

DN LINE

CH: 27+355.248

UIOL

CH: 28+336.50

UIOL

CH: 28+336.50

UIOL

UPLINE

DN LINE

HEELALIGE

RAJANKUNTE

MATCH LINE 15-15

MATCH LINE 16-16

KM 30

KM 31

UIOL

CH: 29+525.0

CH: 29+408.50

PT

PT

LA

BM

LA

UPLINE

BM

BM

DN LINE

LA

LA

BM

CH: 29+408.50

PT

PT

UIOL

SP

THANISANDRA

CH: 29+525KM

UIOL

CH: 29+864.50

CH:29+864.50

UIOL

⑭

THANISANDRA

(SUB-URBAN) STATION

CH: 30+620Km

UIOL

CH: 30+882.5

CH:30+882.5

UIOL

UPLINE

DN LINE

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Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

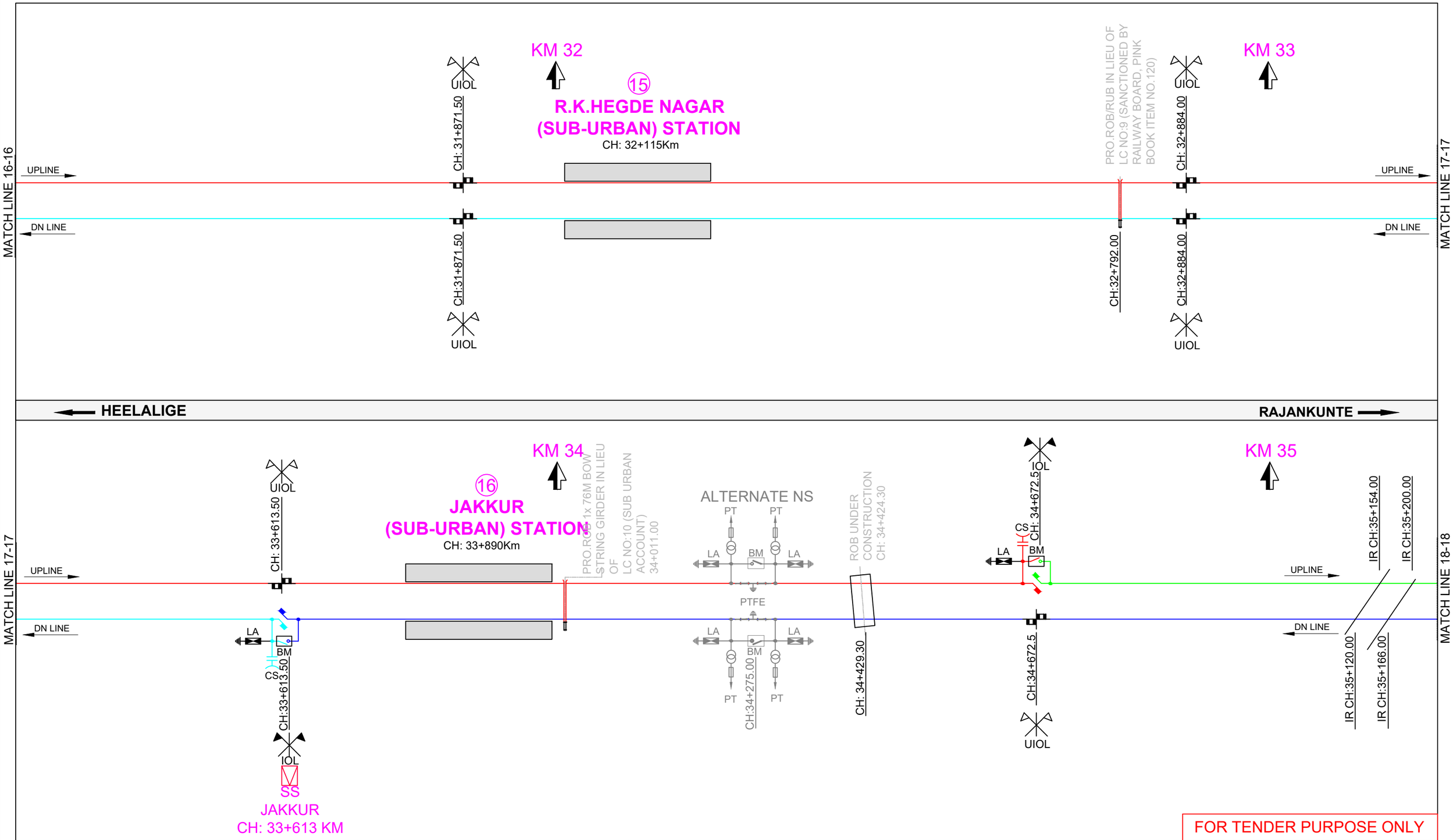
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 10 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

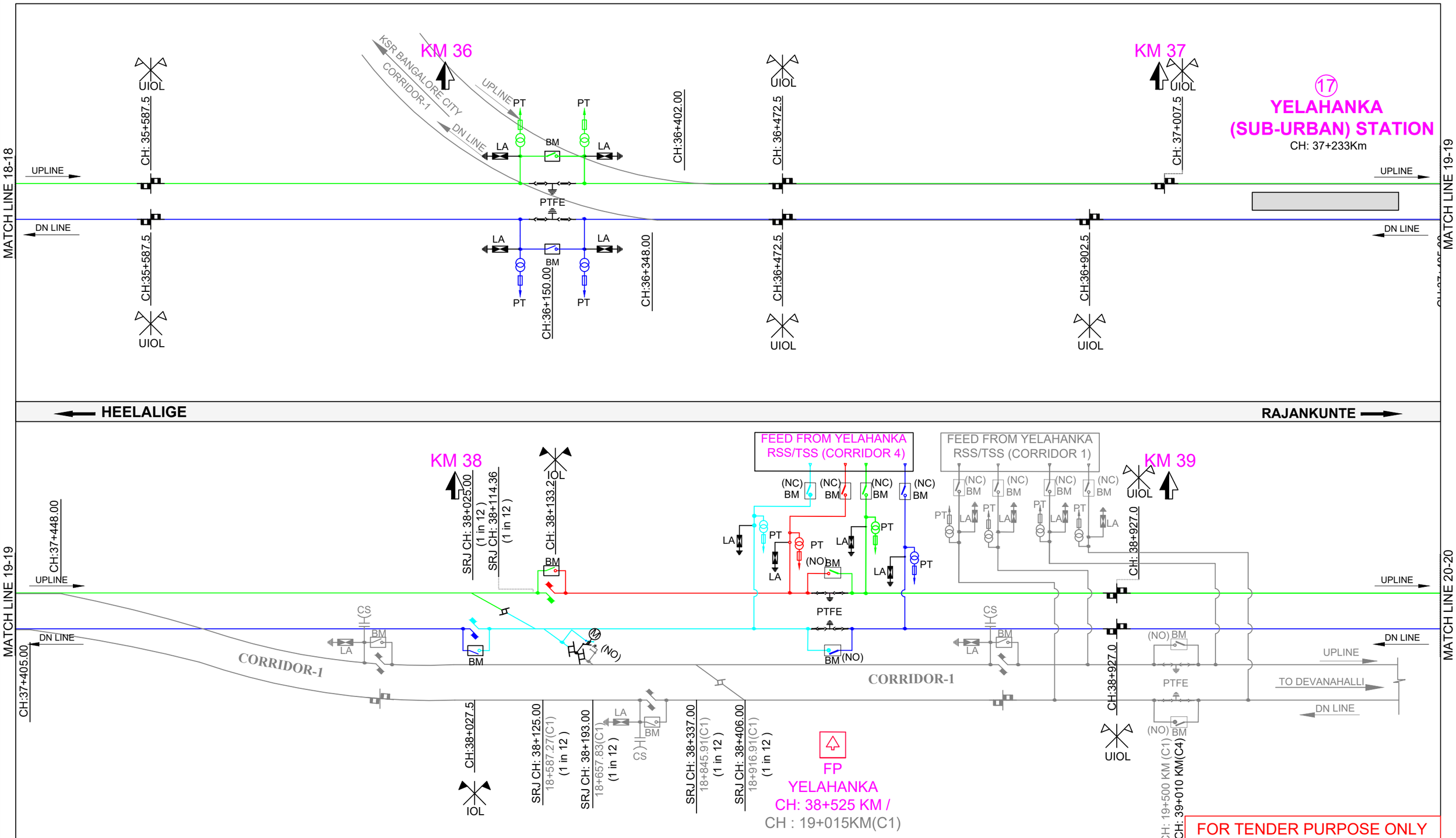
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 11 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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Project Title: Bengaluru Suburban Rail Project (BSRP)
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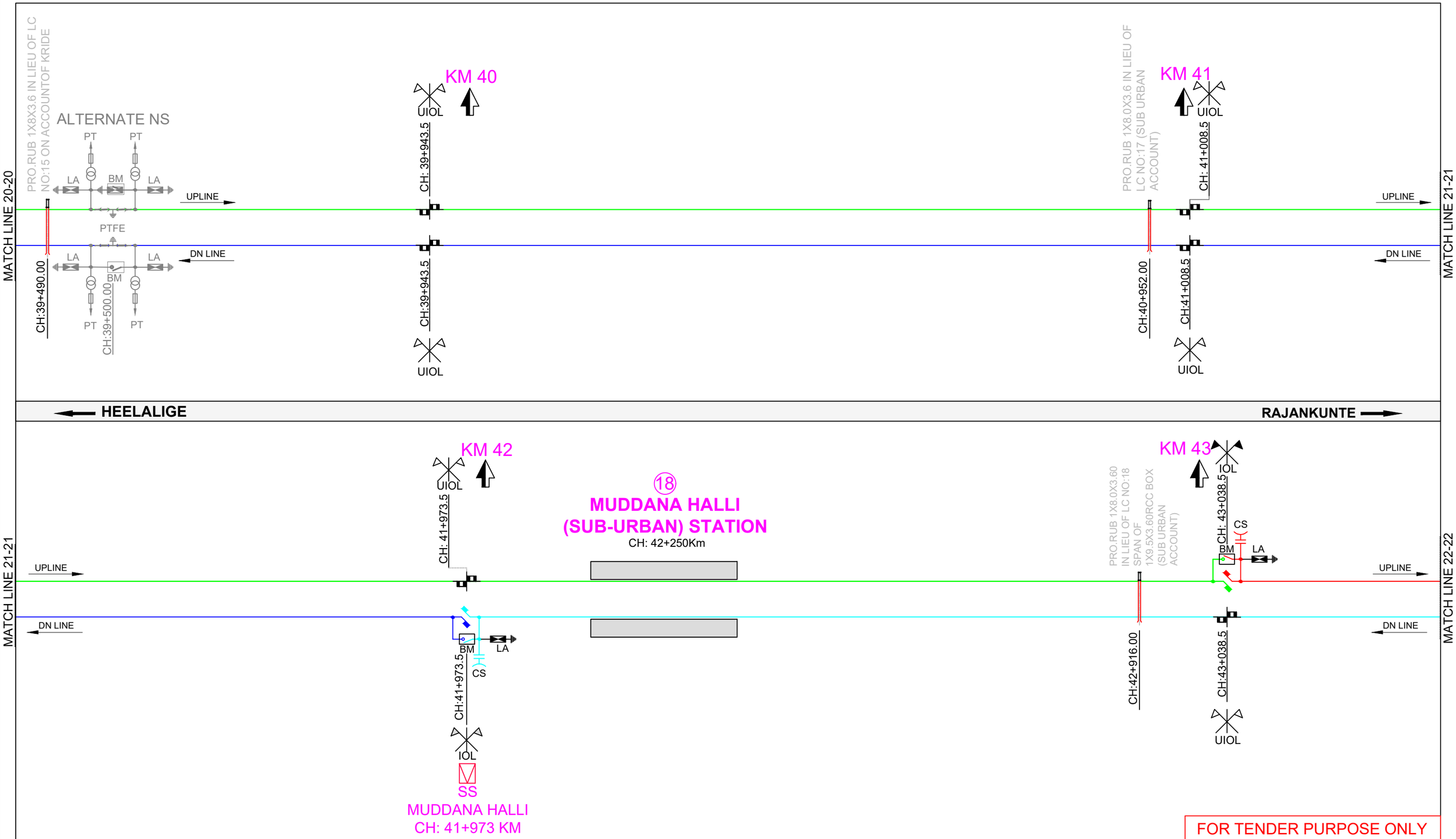
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 12 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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Project Title: Bengaluru Suburban Rail Project (BSRP)
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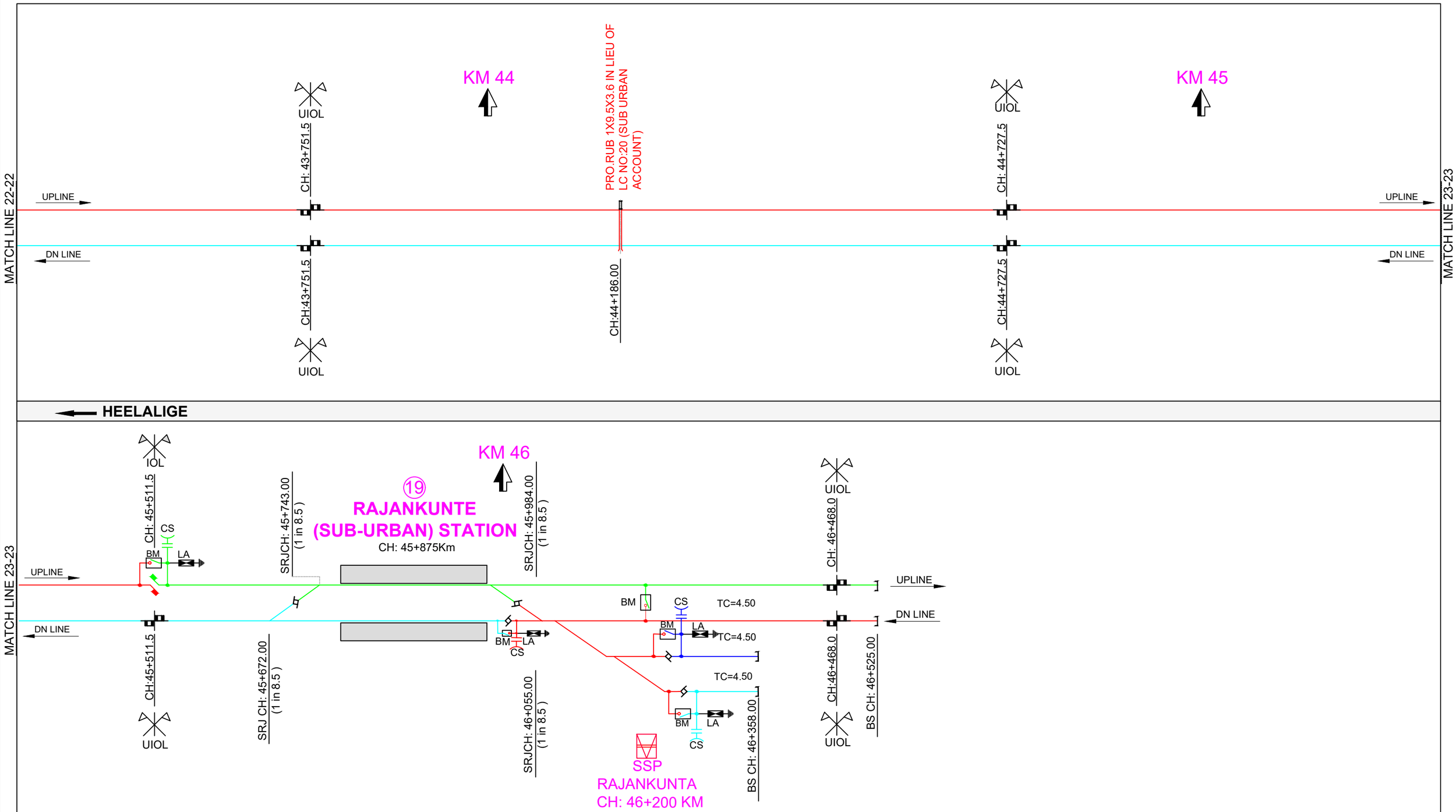
Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 13 of 14)

Project Stage: Tender Drawing

Paper Size: A3 | Discipline: Power Supply & Traction System | Date: 23/08/2024 | Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002 | Revision: R2



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Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: MAIN LINE 25KV OHE SECTIONING SCHEMATIC DIAGRAM (Sheet 14 of 14)

Project Stage: Tender Drawing

Paper Size:	Discipline:	Date:	Scale:
A3	Power Supply & Traction System	23/08/2024	NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-SEC-00002

Revision: R2