

GENERAL CONSULTANT FOR BENGALURU SUBURBAN RAILWAY PROJECT (BSRP)

No. GC/BSRP/K RIDE/S&T/Internal Note/2026**Date: 16.02.2026****Sub: Cable Bracket arrangements in 'At-Grade' Sections****Ref: Internal Office Note dated 09.02.2026 from Chief Power Supply & Traction Expert**

1. Though the cable bracket arrangement in 'At-Grade / Viaduct' sections have been discussed on several occasions, the arrangement was not concluded resulting in an approved drawing.
2. The drawing no. Nill received along with the above referred 'Internal Note' has been perused and the following requirements are to be incorporated from Signalling point of view.
 - i. The 3rd bracket (marked as A in the drawing) to carry 25 kV / 3.3 kV cables will be mostly used in the Mid Sections near the Feeding post. At interlocked stations, there will be larger number of cables between the outer most signals on either side on both the lines for operating the functions of Signals, points, route indicators, axle counters etc. It is proposed to use this bracket in such locations between home signal to home signal on either side on both the lines, in addition to the top 2 brackets earmarked for S&T.
 - ii. The Signalling data cable shall have path diversity for which 1 OFC cable inside the duct need to be laid on the bracket (marked as B in the drawing) fixed on the IR side boundary wall or additional bracket provided there.
 - iii. Subject to this, the drawing received along with the above referred office note is approved and a copy of the same enclosed herewith.

This has reference to the discussions held on date with Chief Power Supply and Traction Expert / GC.

**K S Krishnakumar****Chief Signalling Design & Supervision Expert, GC****Chief Power Supply & Traction Expert, GC****CC:** GM/S&T (I/C), K RIDE – For information and necessary action please

Chief Telecom Expert, GC – For information please

Chief Contract Expert, GC – For information please

GC Office Address: -**11/23, SURYADEV 1st "R" Block, West of Chord Road,
Rajajinagar Bengaluru - 560010**

Date: 09-02-2026

Note**Subject: Note regarding Cable tray arrangement in At-Grade section.****Ref: 1. Systra Letter No -SYST-GC-KRDD-01-EL-LTT-126/25 dated 22-08-2025.****Cable Bracket arrangement in At-Grade Section**

With reference to the above-mentioned subject, please be informed that during the meeting held by K-RIDE on several occasions,, the cable distribution in the bracket was finalized. The changes suggested therein were incorporated and the revised cable bracket arrangement for at-grade section was prepared by GC. M/s Systra vide Letter under Ref [1] had confirmed that the effect of cant and kinematic envelope for tangent and curved locations has been considered in this design.

Further please be informed that as per the verbal discussion with the then PD/GC and CRE C2, the drawings have been prepared and submitted to GC/Civil for floating under civil tenders for C2 Corridor.

The drawing of the same is attached herewith for your signature and records.

Note: The cable brackets will be installed by the Civil Contractor under the supervision of PST-GC

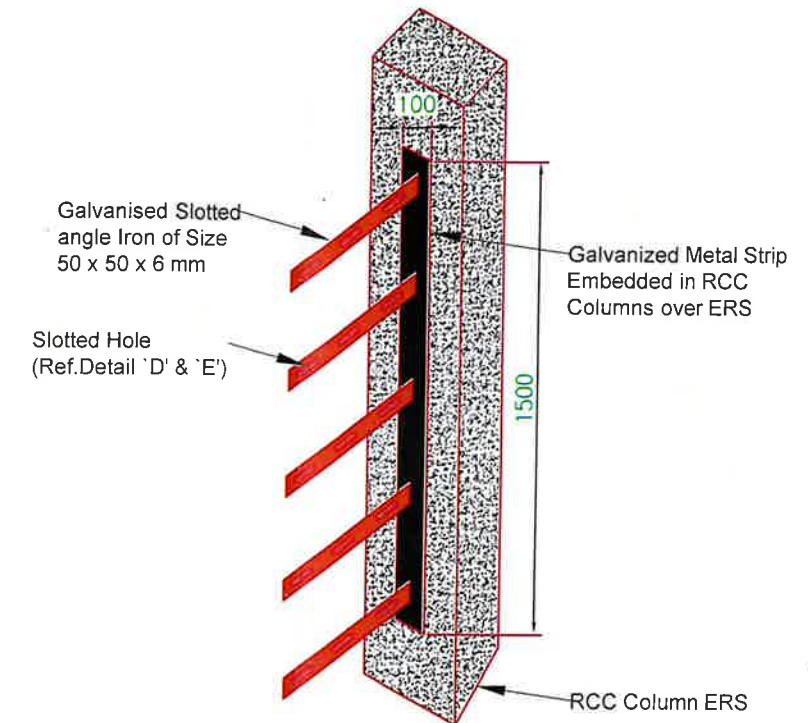
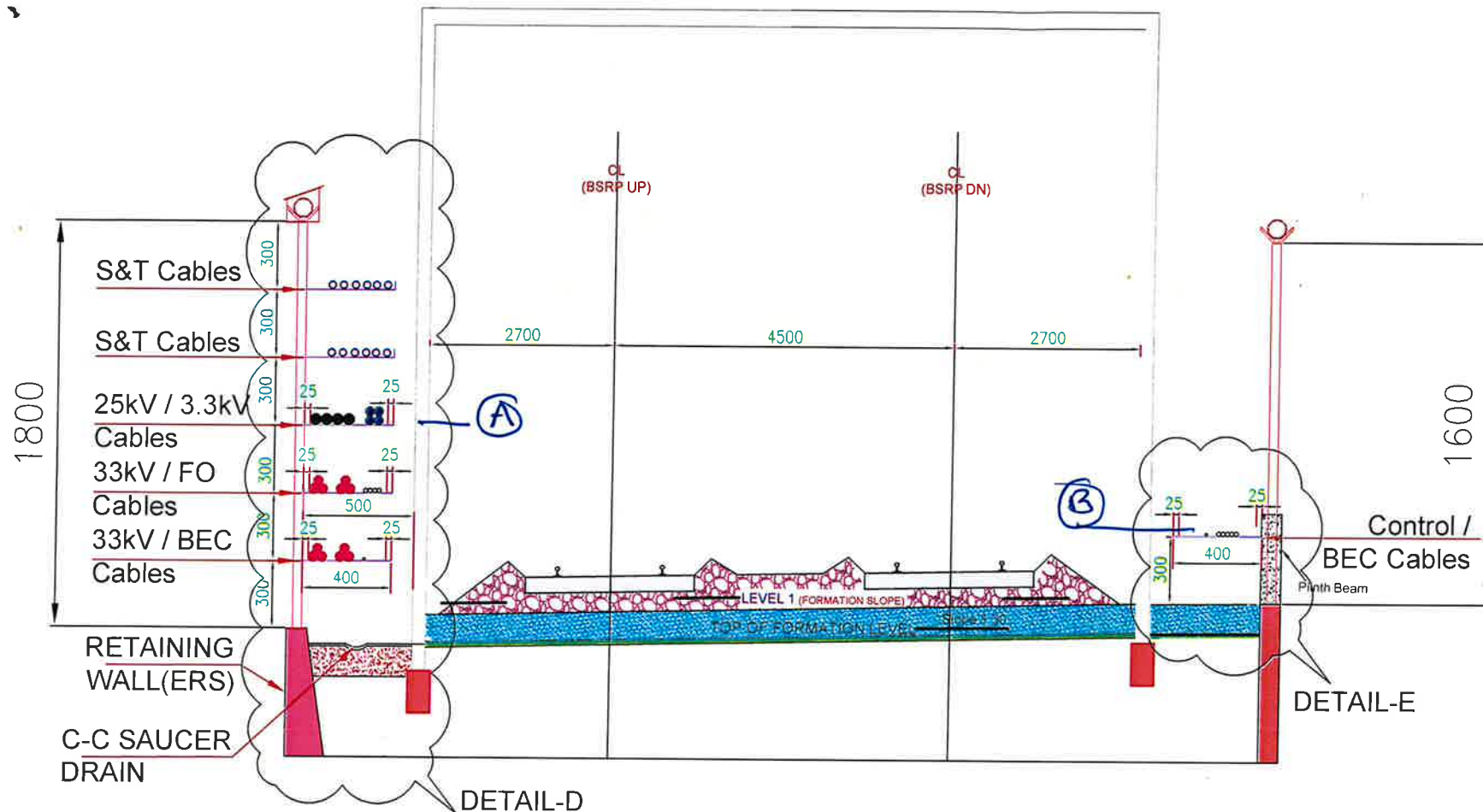
✓ **Chief Signal Expert**
EGIS Rail-AECOM-LBCPL JV


09/2/26
Chief Power Supply & Traction Expert
EGIS Rail-AECOM-LBCPL JV

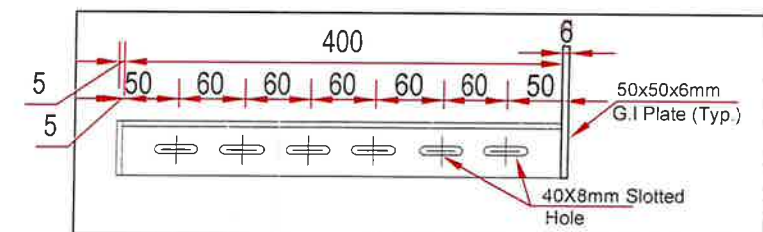
Received today
Harav
9/2/26

Encl: Copy of the aforementioned details.

CC: 1. AGM/Elec - For Kind Information
2. AGM/S&T - For Kind Information



CABLE HANGER DETAILS



DETAIL-D & E TYPICAL BRACKET DESIGN (SLOTTED HOLE ARRANGEMENT)

NOTE:-

1. GALVANIZED MS BRACKET WILL BE PROVIDED ON VIADUCT THE SPAN OF 1M BY VIADUCT/AT-GRADE CIVIL CONTRACTOR.
2. FIXING ARRANGEMENT FOR BRACKET ASSEMBLY TO BE DESIGNED BY THE CIVIL CONTRACTOR.
3. 25 KV CABLE WILL BE AT NEARBY TO FEEDING POST.
4. CABLE WEIGHT: 2600kg/km(33kV Cable)
6050kg/km(25kV Cable)
1600kg/km(3.3kV Cable)
335kg/km(BEC)
1600kg/km(Power Socket Cables)
650kg/km(Lighting Cables)
5. 33 KV CABLE SHALL BE LAID ON UP/DOWN LINE BASED ON THE ASS LOCATION, AND NO CROSSING SHALL BE CONSIDERED AT STATION LEVEL.
6. THIS DRAWING HAS BEEN DESIGNED CONSIDERING THE LOCATION WITH THE MAXIMUM NUMBER OF CABLES.
7. PST CONTRACTOR SHALL MODIFY THE DRAWING AS PER VENDOR DATA AND ACTUAL SITE CONDITIONS.
8. PROVISION FOR CABLE CROSSINGS BY HOPE PIPE SHALL BE MADE BY THE CIVIL CONTRACTOR (AT-GRADE/VIADUCT) BASED ON THE INPUTS PROVIDED BY THE PST CONTRACTOR.
9. THIS DRAWING HAS BEEN DESIGNED FOR BOTH TANGENT AND CURVE LOCATIONS, CONSIDERING THE EFFECT OF CANT ON THE KINEMATIC ENVELOPE.

This drawing has been received along with the letter dt. 9.2.26 from Chief Power supply & Traction Expert. It is under signed from point No 3 tick marked above that- 25 kv at nearby to Feeding post. In interlocked slotted areas between the outer most signals on both the lines, there will be more no. of cables. It may be necessary to lay some cables in the 1st bracket, if need arises. Our data communication cable, ofc shall have redundant path. one of c cable in duct has to be put only in 1st Bracket.

16/2/26

NOTE:

1. ALL DIMENSIONS ARE IN MM UNLESS MENTIONED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.
4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

Certified that this document has been designed and checked in accordance with GC Quality Assurance Plan

AECOM
EGIS-AECOM-WSP

APPROVED BY KRIDE

AM/ELEC/KRIDE

DM/ELEC/KRIDE

Client:



RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

Project Title: BENGALURU SUBURBAN RAILWAY PROJECT (BSRP)

Drawing Title:

Project Stage:

TYPICAL CABLE BRACKET ARRANGEMENTS IN AT-GRADE SECTION

Paper Size: A3

Discipline

Date: 19/09/2025

Drawing No

Sheet 1 of 1

Revision: R0

ELECTRICAL

SIGNALLING

TELECOM

Chief: PST/GC

Chief: SD&S/GC

Chief: TD&S/GC

JGM/ELEC/KRIDE

JGM/S&T/KRIDE