

ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ಪ್ರಸಾರಣ ನಿಗಮ ನಿಯಮಿತ

KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

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Office of the
Superintending Engineer Elecl.
Transmission (Projects)UC, KPTCL.,
A.R. Circle, Bengaluru.

No. SEE/TR(P)UC/EE(O)/AEE-SSD/2025-26/ 6256

Date: 7/2/2027

Encl: Detailed survey reports- 3 sets.

To,

The Executive Engineer Elecl.,
Project Division North,
KPTCL, Bangalore.

Sub: Conducting detailed survey for running 66kV 1000sqmm S/C U G Cable from existing 66/11kV Chandra Layout S/s to **existing 66/11kV Telecom Layout sub-station**, Bangalore North Taluk, Bangalore Urban District for a distance of 2.860kms (Alternative source).- **Reg: Approval of Detailed Survey.**

Ref: 1. 3rd TCCM of BESCOM (Green field) Dated:02.12.2025.
2. Proceedings of 3rd Technical Co-ordination Committee Meeting pertaining to BESCOM area for Green field projects held on 02-12-2025 through hybrid mode. (Part- B).
3. SEE (P&M, MIS)/2025-26/2155-2170, Dtd: 23/01/2026.

With reference to the above subject, the work of "running 66kV 1000sqmm S/C U G Cable from existing 66/11kV Chandra Layout S/s to **existing 66/11kV Telecom Layout sub-station**, Bangalore North Taluk, Bangalore Urban District for a distance of 2.860kms as an alternative source" is **approved in** 3rd Technical Co-ordination Committee meeting held on 02.12.2025.

A detailed survey has been conducted for the above work and duly approved.

In view of the above, the approved detailed survey reports are enclosed herewith and you are requested to prepare the required estimate and submit the same at the earliest for further necessary action.

Yours faithfully,

Superintending Engineer Elecl,
Transmission (Project) Urban Circle,
KPTCL, A.R Circle, Bengaluru.

58-1
9/2/26

DETAILED SURVEY REPORT

**Name of Work: Detailed survey for running 1000sqmm S/C
UG cable from existing 66/11kV Chandra Layout sub-
station to existing 66/11kV Telecom Layout sub-station in
Bengaluru North Taluk, Bengaluru Urban District.
For a route length of 2.860Kms (Alternate source)**

CONSULTANTS:

M/s Yashaswi Engineering and Consultants

[Engineers, Surveyors & Geo-Technical Investigation]

292/1, 20th Main, 4th Block, Nandini Layout,

Bengaluru 560 096, Ph: 90365 72144

SOIL RESISTIVITY REPORT

Name of Work: Detailed survey for running 1000sqmm S/C UG cable from existing 66/11kV Chandra Layout sub-station to existing 66/11kV Telecom Layout sub-station in Bengaluru North Taluk, Bengaluru Urban District. For a route length of 2.860Kms (Alternate source)

Client: Karnataka Power Transmission Corporation Limited

Surveyors: Yashaswi Engineering Consultants, Bengaluru

SL Nos.	Cumulative Chainage	Soil encountered	Earth resistance in ohms	Soil resistivity in ohms-cms	Remarks
1	0	Red Soil	0.80	25120	Near existing 66/11kV Chandra Layout sub-station
2	2000	Red Soil	0.76	23864	Before Tar road
3	2860	Red Soil	0.74	23236	Near existing 66/11kV Telecom Layout sub-station
Total				72220	

$$\text{Average soil resistivity} = \frac{72220}{3} = 24073.33 \text{ ohm-cms.}$$

Formula used = $2\pi rl$

Where 'l' spacing between electrodes = 5000cms

'r' is earth resistance in ohms.

$$\pi = 3.14$$

For Yashaswi Engineering Consultants
Bengaluru

Geetha H.C
Assistant Engineer Ele,
Survey Sub-division
Transmission(Project)UC
KPTCL Bengaluru

Shubha S
Executive Engineer Ele,
Transmission(Project)UC
KPTCL, Bengaluru

Sushovan
Assistant Executive Engineer Ele,
Survey Sub-division
Transmission(Project)UC
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Sanjay
Superintending Engineer Ele,
Transmission(Project)UC
KPTCL, Bengalure

Name of Work: Detailed survey for running 1000sqmm S/C UG cable from existing 66/11kV Chandra Layout sub-station to existing 66/11kV Telecom Layout sub-station in Bengaluru North Taluk, Bengaluru Urban District. For a route length of 2.860Kms (Alternate source)



<div data-bbox="296 1785 593 2016"></div> <div data-bbox="201 1942 647 2005"><p>For Yashaswi Engineering Consultants Bengaluru.</p></div>	<div data-bbox="1409 1753 1573 1879"></div> <div data-bbox="1371 1915 1656 2043"><p>Assistant Engineer Ele Survey Sub-division Transmission(Project)UC KPTCL, Bengaluru.</p></div>	<div data-bbox="1706 1690 2033 1879"></div> <div data-bbox="1715 1915 2092 2043"><p>Assistant Executive Engineer Ele Survey Sub-division Transmission(Project)UC KPTCL, Bengaluru.</p></div>	<div data-bbox="2226 1816 2418 1879"></div> <div data-bbox="2151 1915 2439 2011"><p>Executive Engineer Ele Transmission(Project)UC KPTCL, Bengaluru.</p></div>	<div data-bbox="2537 1837 2834 1921"></div> <div data-bbox="2516 1915 2864 2011"><p>Superintending Engineer Ele, Transmission (Project)UC KPTCL, Bengaluru.</p></div>
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