GULBARGA ELECTRICITY SUPPLY COMPANY LIMITED
(A Government of Karnataka Enterprise)

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Office of the Executive Engineer Ele.,
O&M Division, GESCOM, Opp. KSRTC
Bus Stand, Main Road Sedam.

No. GESCOM/EEE(SDM)/AEE(O)/AET/2021-22/ ~ 6097 Date: 18-01-2022

To,
THE ASSISTANT GENERAL MANAGAER,
PLANNING
O/o THE GENERAL MANAGER,
TELECOM DISTRICT, FORT ROAD,
KALABURGI.

Sir,

Sub: PTCC Proposal for Construction of 11KV S/C line using ACSR Rabbit Conductor from the existing 33/11KV S/S at Kunchawaram the proposed 11KV Venkatapur NJY line in Chincholi Taluk, Kalaburgi district.

The following points have been checked and the proposal for the subject line is sent. Please initiate further action to obtain and communicate the route approval for the subject line.

Sl. No.	DETAILS	ANSWER
01	Whether the route map of the power line ma rked on the latest extracts of Topo sheets prepared by the survey of India to a scale of 1 inch = 1 mile or 2 cm = 1km. Topo features should contain all the roads, highways, rivers, lakes, villages, townships, railway lines, (Railway stations should be clearly marked). This feature should be marked up to 8km or 5 miles on either side of the proposed line. Note: Telecommunication lines of P&T railways need not be marked.	Route of proposed line marked on Topo sheet
02	If the proposed line is a tap line, whether PTCC approval for the main line obtained.	It is a Main line
03	If the answer for point 2 is YES, the number and date of PTCC approval.	NA
04	If the answer for point 2 is not Yes or No, whether the main line is marked as at point 1.	Yes
05	Whether soil resistivity values taken along the route of proposed line furnished (One value for 2 or 3 kms). To be furnished using 4 electrode method with inter electrode spacing of 50mts preferably using an evershed VIGNOLES EARTH TESTER.	Enclosed
06	If it is a tap line (where the main line is not approved by the PTCC, route approval not traceable etc.,), the soil resistivity values to be furnished for the main line also.	-
07	Whether the length of the proposed line as measured from the map tally with the length arrived by surveying.	Yes
08	Whether the PTCC questionnaire duly filled up furnished	Yes
09	Whether the single line drawing of the connected stations furnished.	Yes
10	Whether outline drawing of the tower to a suitable scale furnished (Main dimensions should be clearly marked).	Enclosed
11	Whether a certificate regarding the non-existence of Railway lines within 8Kms vicinity of the proposed line furnished.	Railway track does not exists within 8Km vicinity of the proposed line

Yours faithfully

Executive Engineer (Ele.)
O & M Division
GESCOM Sedam

Received
19/1/22
Ajmeera
BSNL GLB.

GOVERNMENT OF INDIA
POWER TELECOMMUNICATION CO-ORDINATION
COMMITTEE QUESTIONNAIRE

(To be answered by the authorities in charge of power system while applying for PTCC Route Approvals)

1. Please supply data of the power system as per details below:

1.1	Key diagram (single line) of the Electrical layout of the relevant portions of the power system, indicating the number, voltage, ratings, capacities etc., of the various power apparatus. Indicate also by dotted lines the extension proposed ultimately or through the current five-year plan. NOTE: By relevant is meant all the power stations, which under normal operating conditions will feed into a fault occurring within or outside the parallelism section as well as all lines on which such fault current would flow.	Single line diagrams of Existing 33/11KV S/S at Kunchwaram, Proposed 11KV Venkatapur NJY line
1.2	Data on the characteristics of equipment, viz generators, transformers, reactors, synchronous condensers, earthing transformers etc, installed in the system as per enclosed annexure (transient reactance figures should be given for all rotating machines)	Enclosed
1.3	Please state if the neutral points of the power system are (i) installed, or (ii) earthed. If the latter, please indicate the type of earthing, e.g. solidly earthed through Peterson coils, earthed through resistance or reactance Give also full particulars.	Neutral is Solidly earthed
2.0	Please supply the following data in respect of the particular power line for which approval is sought.	
2.1	Name	**PTCC Proposal for Construction of 11KV S/C line using ACSR Rabbit Conductor from the existing 33/11KV S/S at Kunchawaram the proposed 11KV Venkatapur NJY line in Chincholi Taluk, Kalaburgi district**
2.2	Operating voltage and Number of circuits	11KV S/C line
	a) Length	14.715Kms
	b) Conductor/Earth wire size and material	Power Conductor : ACSR "Rabbit" Conductor with 10.05mm (dia), Aluminum 6/3.35mm &Steel 1/3.35mm, Ground wire nil
2.4	If it is a tap or spur line, the length of the tap and the distance of the tapping point from the end sub stations should be clearly indicated	It is a MainLine
2.5	Is the power line bussed at any intermediate sub-station? if so, please give details	-No-
2.6	Will the power line initially be charged at some lower voltage?	-No-
2.7	Probable date of commencing the construction	June-2022
2.8	Probable date of commissioning	Dec – 2022
2.9	Date by which approval is desired	Immediately

3.0	Please supply a route map showing the proposed alignment of the power line and the paralleling tele-communication lines in the area, drawn to a scale of 1cm=0.5Kmsor 1"=1mile. All topographical details including all railway lines, rivers, canals, and important roads up to 8Kms on either side of the proposed power line may also be drawn to the scale. The Railway stations should be located on the map and named. NOTE: 1) If the proposed line is an extension of the Proposed line, which had not been referred to the committee previously a similar route map of the Proposed line, should also be supplied along with the route map of the proposed line. NOTE: 2) A copy of the route map with telecom circuits marked be also sent to local DOT authorities and Railway authorities, requesting them to confirm the telecom circuit and also indicate the points of discontinuity in the telecom circuits to both the Joint Secretaries of the committee.	Enclosed
3.1	Number and date of the route map showing the proposed alignment.	Topo Map Nos.56G
4.0	Sketch or sketches or supports showing the conductor and group wire arrangements of the transmission line together with an indication of the sizes and materials of the various wires.	Sketch enclosed
4.1	Please also furnish the structural details of the supports, Indicate the factor of safety adopted under normal conductions and broken wire conductions.	9Mts. RCC AND 9Mtr PSC poles as per I.S. specification will be used. Designed to FOS of 2.0 under normal conditions & 1.50 for broken wire condition
5.0	Please indicate the protective device adopted for the line. In respect of lines protected by circuit breakers, please furnish also the type of the lines and relaying proposed and the total time (Breaker and Relay) for clearance of ground faults on the line with normal relay settings.	Vacuum Circuit Breakers, Earth fault relays, Over current relays.
6.0	Please indicate the soil resistivity in the area covered by the line. The soil resistivity should be measured by the four electrodemethod using an inter electrode spacing of 50 meters (150ft). The measurements may be made at every 2 or 3Kms along with the length of the line.	Enclosed
7.0	Please indicate the number of crossings between the proposed alignment and the tele-communication lines involved and state if the crossing arrangements will be provided in accordance with the code of practice for crossings issued by the Power and Telecommunication Co-ordination Committee.	Nil

8.0 EPR details of End substations:

a. Name of Sub-station	:	Existing 33/11kV Sub-Station Kunchwaram.
b. New / Proposed	:	Existing Proposed
c. Diagonal distance of earth mat in meters	:	
d. Maximum fault current of Substation in Amps	:	
e. Earth mat resistance in Ohms	:	
9.0 Main line particulars in the case of LILO / tap line	:	
10.0 Whether any Railway line exists within 8 Kms. on either side of the power line	:	Railway track does not exists within 8Km vicinity of the proposed line.

11.0 While applying for route approvals of the Committee, the above particulars should be furnished to:

(i) Director (PTCC), Central Electricity Authority, Load Despatch & Telecommunication Division, PTCC Directorate, NREB Building, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110/11 016.

(ii) DET (PTCC) concerned.

Place:
Date:

Signature:
Name:
Designation:

Executive Engineer (Elec.)
O & M DIVISION
GESCOM SEDAM

APPENDIX – I

1.	a) Mean distance of power conductors	: 915 MM Phase to Phase
	b) Distance between power and telecom line	: No Parallelism
	c) Average height of power line conductor At crossing and above ground	: Minimum of 6.50Mts.
	d) Deposition of power conductors	: Inverted V-Configuration
	e) Separation between power line and center of tower line	: 760MM
	f) Whether earth wire is supported on Power line supports	: No Earth wire
	g) Maximum load current for which the Power line is designed	: 280 Amps at 30^0 C

2. Certificate of existence of railway line within 8Kms in the Vicinity of the proposed line. : Certified that railway line does not exist within 8km Vicinity of the proposed line.

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GESCOM, Chincholi.

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APPENDIX – II

Please furnish the characteristics of the various power apparatus under:

1. Synchronous Machines (Generator Synchronous condensers)

Sl No	Name of the power station or sub station	Rating KVA	Transient reactance (percentage reactance on its own base)
		-Nil-	

2.Transformers

Sl No	Name of power station or sub-station	High voltage winding KV connections	Medium voltage KV connections	Low or Tertiary winding KV connections	Percentage reactance HV HV/LV or MV/LV MT tertiary or Tertiary
1.	Kunchawaram S/S	33KV -	11KV	-	
2.	Venkatapur line	11KV	-	-	

1. In the case of star connections please state clearly whether the neutral is effectively grounded.

2. In the case of windings connected delta, please indicate whether it would be operated with Isolated neutral or grounded through earthing transformers.

3. The MVA base to which these values relate should be clearly specified.

3. Reactors

Sl No	Name of power house or sub station	Rating	(Percentage reactance on its own base)
		- Nil -	

4. Earthing Transformers

Sl No.	Name of the power house or sub station	Current rating (short time)	Voltage	Time Rating	Percentage reactance on
1.	Kunchawaram S/S	Nil-			
2.	Venkatapur line	Nil-	-	-	

5. Power sub-stations:

Sl No	Name of the sub-station	New (or) Proposed	Earth mat Dimension of S/S in Mts.	Res in Ohms	Max. rated Fault current in MVA	Zone of EPR for 430 Volts limit
1.	Kunchawaram S/S					
2.	Venkatapur line					

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CERTIFICATE

PTCC Proposal for Construction of 11KV S/C line using ACSR Rabbit Conductor from the existing 33/11KV S/S at Kunchawaram the proposed 11KV Venkatapur NJY line in Chincholi Taluk, Kalaburgi district.

PROFORMA: II

1	No.of Railway Crossing	Nil
2	Details of Railway line or station within 8Kms of the power line if any	Nil
3	Name of Railway Line (i.e., CR/WR/SCR/SWR etc.,)	-
4	Gauge (BG/MG/NG)	-
5	Name of nearest Railway Station	-
6	Minimum distance from the power line to Railway Station	-

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Name of work: PTCC Proposal for Construction of 11KV S/C line using ACSR Rabbit Conductor from the existing 33/11KV S/S at Kunchawaram the proposed 11KV Venkatapur NJY Line in Chincholi Taluk, Kalaburgi district.

SCALE : 1: 50,000		
Surveyors:Niketan Consultants, Bangalore.		
Route length :14.715 Kms		
Topo Map Nos. : 56G		
		Proposed 11KV S/C line
		Existing 33/11KV S/S at Kunchawaram
		Proposed 11KV Venkatapur NJY line

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