

BHARAT SANCHAR NIGAM LIMITED
POWER TELECOMMUNICATION COORDINATION COMMITTEE

No. IC / MBI / PTCC / MRA-1968 Dated at Mumbai, the 13.10. 2011

CERTIFICATE OF APPROVAL TO THE ROUTE OF EXTRA HIGH TENSION POWER LINE

Approval of the power telecommunication Co-ordination committee hereby conveyed to the route of:

" 220 KV D/C line from proposed Power Plant of M/s Vidharbha Industries Power Ltd.(M/s VIPL) at Butibori MIDC to proposed 220KV Butibori - III s/s (Phase- I) (Length : 1.2 Km)"

particulars of which are given in Appendix-I.

The approval is for the route only and is subject to the following conditions:

1. The approval is based on the power system/telecom system conditions/details as reported by the power supply Authority/Telecom Authority at present. Any changes either to the transmission line or the power system or the paralleling telecommunication lines which are likely to alter the low frequency induction from the estimated at present should be reported to PTCC for its prior approval.
2. The power & Telecommunication Authorities shall be required to adopt such measures as may be recommended by PTCC for its counter acting any interference that might arise when the E.H.T. line is in normal operation.
3. Each crossing should satisfy the conditions as laid down in para 8 of PTCC Code of practice for crossings.
4. The angle of crossing shall be 90 degrees but in no case be less than 60 degrees.
5. The power line shall be equipped with protective switch gear such that the duration of earth fault current shall be as short as possible but never exceeding 0.5 seconds.
6. If any of the protective measures recommended and incorporated in this Route Approval Certificate is already existing on the telecom circuits of P&T/Railways, the same shall not be provided again now. Similarly, if the protections recommended and incorporated herein are already covered in the recommendations of any other Route Approval Certificate, but the physical provision of the same is not completed, care should be taken by the P&T/Railways to avoid duplication.

7. The power lines shall be energised within a mutually acceptable time limit after obtaining & Certificate from concerned P&T and/or Railway Authority regarding completion of provision of all protective measures as recommended by PTCC and also under specific clearance from the P&T and/or Railway Authority maintaining the telecommunication system.
8. The later entrant in the field shall bear entire cost of providing G.D. tubes and their fitting as recommended by PTCC including 15% spares and/or any other protective measures as recommended by PTCC.
9. The charging of the power line should not be held up for want of provision of G. D. tubes for which cost of provision is to be borne by the P&T Dept.(i.e. for I.V. between 430-650 volts). But the line shall be energized only after the provision of G.D. tubes in respect of cases where I.V. is more than 650 volts and the power line is highly reliable one.
10. The route approval shall be subject to special conditions as laid down under Appendix-II.

For and on behalf of the Central PTCC

Fegade
13/10/2011
(R.B.Fegade)

DIVISIONAL ENGINEER(PTCC)
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COPY TO;

- ✓ 1. The S.E.(S&C),MSETCL, Bandra (E),Mumbai-51.It is requested to send a copy of this route approval certificate to all concerned as mentioned below
2. The G.M.(S&T), Central Railway, Mumbai.
3. The G.M.(Maint.),WTR, Mumbai -28.
4. The Director (PTCC),CEA, New Delhi-16.
5. The A.G.M.(Plg.), O/o G.M.T., BSNL, Nagpur.
6. Guard file

APPENDIX-I MRA-1968

- 1.a. Name of the power supply : S.E.(S&C), MSETCL, Mumbai-51
authority seeking approval
- b. Reference No. and date : MSETCL/CO/Tr.Pr./S&C/PTCC/220KV/O-49/12133 Date 08.08.2011
- c. Probable date of energisation : As per Electrical authority
- 2.a. Name of the power line : 220 KV D/C line from Power Plant of M/s Vidharbha Industries Power Ltd.(M/s VIPL) at Butibori MIDC to proposed 220KV Butibori - III s/s (Phase- I)
- b. Route map No. and date : VIPL/PTCC/220KV/R1 date 29.11.2010
- c. Operating voltage : 220 KV
- d. Length of H.T. line : 1.2 Km
- e. No. of circuits : D/C
3. a. Names of paralleling Telecom lines : Nil
- b. Length of parallelism : Nil
4. Average value of earth resistivity in the region : 13,659 Ohms /CM 3
5. Whether L.T. Test necessary : No
6. Special conditions, subject to which this certificate Will be effective. : As per Appendix-II (Para 1 to 4)
7. Fault current and induced voltages : Nil

APPENDIX-II1) BSNL Circuits

SDE,BSNL, Butibori has certified that there is no any telecom line / Underground Cable parallel or crossing to the proposed power line, Which is communicated by AGM(Plg.),O/o PGMT, Nagpur vide letter No. PLG/PTCC/2011-12 Dated 27.08.2011

2) Railway circuits:

G.M.(S&T) , Central Railway , Mumbai has issued NOC vide letter no. N.153/PTCC/ 220KV/ MAH-262 Date 02.09.2011.

3) CGM(Maint.)Mumbai

The Comments/objections if any (presumed nil)from CGM (Maint.) , Mumbai at later stage, would be incorporated in the form of corrigendum. Since no report has been received from CGM (Maint.) , Mumbai.

4) Earth potential rise

The value of Earth Potential rise of 220KV VIPL s/s is 2506 meter . Telecom authority should not construct exchange within these zone. Telecom authority should follow the guide lines mentioned in PTCC manual edition 1995 on Page no.149 to 153.

Fegale PB

13/10/2011

For the Project Engineer
MSETCL
Butibori