



Govt. of India
Ministry of Power
Central Electricity Authority
Office of Secretary.

Sewa Bhawan, R.K. Puram, New Delhi – 110066
Website: www.cea.nic.in
Phone: 011-26105619 Tel Fax: 011-26108476



ISO : 9001-2000

No.CEA/SETD/ 323/2016/23

January 18 , 2016

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

In India, ACSR and AAAC are commonly used conductors for transmission of Power on over head lines for transmission and distribution system. The enhancement in power transmission capacity in existing corridor, reduction in losses and optimization of Right of Way (RoW) etc. of electric network is the need of the hour. New technologies are emerging out globally and there is need to adopt them rationally to suit India's Transmission and Distribution Sector. New generation HPC is one of the emerging technologies on the horizon that could help electric power delivery system for efficient transmission of energy. New generation Conductors can reduce losses and at the same time enhance power flow per unit (or meter) of Right of Way (RoW) under normal as well as under emergency condition and can address issues like growing congestion in existing corridor of transmission / distribution network and Right of Way (RoW) problems.

- 1) In view of above, it has been decided to constitute a Technical committee comprising of representatives from IEEMA/few manufacturers, users of new generation conductors, CPRI and CEA to discuss various aspects of new generation conductor to rationalize the effective use of such conductors. The composition of Committee shall be as follows:

1	Chief Engineer (PSE&TD), CEA	Chairman
2	A Representative from (PSP&A-I & PSP&A-II), CEA	Member
3	A representative from (DP&ED), CEA	Member
4	Two nominees from IEEMA(Manufacturers of HPC conductors)	Members
5	A representative from CPRI	Member
6	A representative from PGCIL and CTU	Member
7	Representatives from State/Pvt. Power Utilities <ul style="list-style-type: none">• UPPTCL (UP)• MSETCL (Maharashtra)• WBSETCL (West Bengal)• OPTCL (Odisha)• RRVPNL (Rajasthan)• GETCO (Gujrat)• M/s. Tata Power• M/s. Torrento Power• CESC	Members
8	Director(PSE&TD), CEA	Member Secretary /Convener

- 2) The Terms of Reference (ToR) of the committee will be as follows:
- Rationalize effective use of New Generation High Performance Conductor (HPC) [High Temperature conductor / High Temperature Low Sag (HTLS) conductors] in Transmission & Distribution Sector
 - Compare the pros and cons of various types of new generation conductors in use / commercially available and cost benefit analysis taking into account LCC.
 - Assess the Indigenous manufacturing facility and capability to supply New Generation HPC and associated accessories
 - Decide Broad Technical parameters required to be specified for different types of New Generation HPC for bidding process
 - Decide criteria for Technical Evaluation of Bids for different types of New Generation HPC
 - Discuss about the Testing of New Generation HPC [Type testing and Routine testing etc.] and assess the testing facility available in the Country
 - Discuss about Performance, erection & commission, and Operation & Maintenance issues pertaining to various types of New Generation HPC in India and abroad
- 3) The TA/DA and other expenses shall be borne by the respective organizations of the members of the Committee.
- 4) The committee will submit its recommendation within three (3) months from the date of constitution of the committee.

Committee may Co-opt any other Member.

4-1411116

(P.D. Siwal)
Secretary, CEA

To:

- Chief Engineer(PSE&TD), CEA
- Chief Engineer (PSP&A-I & II), CEA
- Chief Engineer (DP&ED), CEA
- Director General, Central Power Research Institute,
Professor Sir C.V.Raman Road, P.O.Box-8066, Bangalore-560080
- Director (Projects), PGCIL
- MD/CMD of following state utility & Pvt. Utilities.
 - UPPTCL
 - MSETCI
 - WBSETCL
 - OPTCL
 - RRVPL
 - GETCO
 - M/s. Tata Power
 - M/s. Torrento Power
 - CESC
- Director General, IEEMA
- Director(PSE&TD), CEA

With a request to nominate their representative as Member of Committee (not below the rank of GM/Chief Engineer /equivalent) along with an alternate member(not below the rank of AGM/SE/equivalent)



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Power System Engg. & Technology Development Div.
Sewa Bhawan, R.K. Puram, New Delhi – 110066
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PHONE: 26732307 TELEFAX: 26170541



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07c

No.CEA/SETD/323/206/24-41

January 18 , 2016

To

As Per List

Sub: Constitution of Technical Committee to "Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

Sir,

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In view of above, a Technical Committee comprising of representatives from IEEMA/few manufacturers, users of new generation conductors, CPRI and CEA has been constituted (Copy Enclosed) to discuss various aspects of new generation conductor to rationalize the effective use of such conductors.

Therefore, it is requested to nominate a senior level officer dealing with such matter as a Member and alternate Member [Member of the committee not below the rank of GM/Chief Engineer/equivalent and alternate Member not below the rank of AGM/Superintending Engineer/equivalent] of the Committee. The first meeting of the committee is scheduled to be held at CEA, Conference Hall, 6th Floor, Sewa Bhawan, R.K. Puram, Sector-I, New Delhi-110066 on January 29, 2016(Friday) at 2.30 PM.

Yours faithfully,

(S.K. Ray Mohapatra)
Chief Engineer(PSE&TD)

1. Managing Director,
West Bengal State Electricity Transmission Company Ltd.(WBSETCL)
8th Floor, DJ Block, Sector-II Salt Lake
KOLKATA – 700 091

2. Chairman & Managing Director,
Orissa Power Transmission Corporation Ltd.(OPTCL)
Vidyut Bhawan,
Janpath,
Bhubaneswar – 751 022
Odisha

Chief General Manager (O & M),
Orissa Power Transmission Corporation Ltd.(OPTCL)
Vidyut Bhawan,
Janpath,
Bhubaneswar – 751 022
Odisha

3. Managing Director
U.P. Power Transmission Corporation Ltd.(UPPTCL)
7th Floor, Shakti Bhawan,
14, Ashok Marg,
Lucknow – 226 001

Shri A.P. Singh, Director(Water and Power),
U.P. Power Transmission Corporation Ltd.(UPPTCL)
7th Floor, Shakti Bhawan,
14, Ashok Marg,
Lucknow – 226 001

4. Chairman & Managing Director
Maharashtra State Electricity Transmission Co. Ltd.(MSETCL)
Prakashganga, Bandra Kurla Complex,
Plot No C-19, E-Block, Bandra (E),
MUMBAI – 400 051

Shri Omprakash K. Yempal, Director(Operation),
Maharashtra State Electricity Transmission Co. Ltd.(MSETCL)
Prakashganga, Bandra Kurla Complex,
Plot No C-19, E-Block, Bandra (E),
MUMBAI – 400 051

5. Sh. Surinder Kumar Negi,
Managing Director,
Gujarat Energy Transmission Corporation Limited(GETCO)
Sardar Patel Vidyut Bhawan,
Race Course, VADODARA – 390 007
Mobile No. 9879200622

6. Chairman & Managing Director,
Rajasthan Rajya Vidyut Prasaran Nigam Ltd.(RRVPL)
Vidyut Bhawan, Janpath,
Jaipur – 302 005.

7. Director General
Indian Electrical & Electronics Manufacturers Association (IEEMA)
Rishyamook Building, First Floor
85 A, Panchkuian Road
New Delhi-110 001

Shri J Pande, Sr. Director,
Indian Electrical & Electronics Manufacturers Association (IEEMA)
Rishyamook Building, First Floor
85 A, Panchkuian Road
New Delhi-110 001

8. Director(Projects)
Power Grid Corporation of India Limited (PGCIL)
Saudamini, Plot No.2, Sector 29
Near IFFCO Chowk,
Gurgaon (Haryana) - 122001, INDIA

CEO (CTU),
Power Grid Corporation of India Limited (PGCIL)
Saudamini, Plot No.2, Sector 29
Near IFFCO Chowk,
Gurgaon (Haryana) - 122001, INDIA

ED (Engineering),
Power Grid Corporation of India Limited (PGCIL)
Saudamini, Plot No.2, Sector 29
Near IFFCO Chowk,
Gurgaon (Haryana) - 122001, INDIA

9. Director General
Central Power Research Institute (CPRI)
Prof. Sir C.V. Raman Road,
P.B.No. 8066, Sadashivanagar P.O.,
Bangalore 560 080
Fax No. 91(80) -2360 1213, 2360 2277

10. Managing Director
Calcutta Electric Supply Company (CESC) Ltd.
CESC House, Chowranghee Square
Kolkata – 700 001
Tele: 0222 56040-49
Email: cesclimited@rp.sg.in

11. Director
Torrent Power Ltd.
Electricity House, Lal Darwaja
Ahmedabad – 380001
Email.: jinalmetha@torrentpower.com

12. Shri M.V. Kini
Head (Electrical Project Engineering)
Tata Power Company Ltd.
Centre for Technology Excellence
4th Floor, Technopolis Knowledge Park
Mahakali Caves Road, Chakala, Andheri(East)
Mumbai – 400 093



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Central Electricity Authority
Power System Engg. & Technology Development Div.
Sewa Bhawan, R.K. Puram, New Delhi – 110066
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PHONE: 26732307 TELEFAX: 26170541



ISO : 9001-2000

No.CEA/SETD/323/2016/24

January 18 , 2016

To

Managing Director,
West Bengal State Electricity Transmission Company Ltd.(WBSETCL)
8th Floor, DJ Block, Sector-II Salt Lake
KOLKATA – 700 091

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

Sir,

In India, ACSR and AAAC are commonly used conductors for transmission of Power on over head lines for transmission and distribution system. The enhancement in power transmission capacity in existing corridor, reduction in losses and optimization of Right of Way (RoW) etc. of electric network is the need of the hour. There is need to adopt new technology to suit India's Transmission and Distribution Sector. New generation HPC is one of the emerging technologies on the horizon that could help electric power delivery system for efficient transmission of energy. New generation Conductors can reduce losses and at the same time enhance power flow per unit (or meter) of Right of Way (RoW) under normal as well as under emergency condition and can address issues like growing congestion in existing corridor of transmission / distribution network and Right of Way (RoW) problems.

In view of above, a Technical Committee comprising of representatives from IEEMA/few manufacturers, users of new generation conductors, CPRI and CEA has been constituted (Copy Enclosed) to discuss various aspects of new generation conductor to rationalize the effective use of such conductors.

Therefore, it is requested to nominate a senior level officer dealing with such matter as a Member and alternate Member [Member of the committee not below the rank of GM/Chief Engineer/equivalent and alternate Member not below the rank of AGM/Superintending Engineer/equivalent] of the Committee. The first meeting of the committee is scheduled to be held at CEA, Conference Hall, 6th Floor, Sewa Bhawan, R.K. Puram, Sector-I, New Delhi-110066 on January 29, 2016(Friday) at 2.30 PM.

Yours faithfully,

(S.K. Ray Mohapatra)
Chief Engineer(PSE&TD)



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Central Electricity Authority
Power System Engg. & Technology Development Div.
Sewa Bhawan, R.K. Puram, New Delhi – 110066
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ISO : 9001-2000

No.CEA/SETD/ 323/2016/25

January 18 , 2016

To

✓ Chairman & Managing Director,
Odisha Power Transmission Corporation Ltd.(OPTCL)
Vidyut Bhawan, Janpath,
Bhubaneshwar – 751 022 – ODISHA
(Phone No. 0674-2541320/2542320)

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System


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Yours faithfully,


(S.K. Ray Mohapatra)
Chief Engineer(PSE&TD)

Copy to: Chief General Manager (O & M), OPTCL, Janpath, Bhubaneshwar – 751 022 – ODISHA



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Sewa Bhawan, R.K. Puram, New Delhi – 110066
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ISO : 9001-2000

No.CEA/SETD/ 323/2016/27

January 18 , 2016

To

✓ Managing Director
U.P.Power Transmission Corporation Ltd.(UPPTCL)
7th Floor, Shakti Bhawan,14, Ashok Marg,
Lucknow – 226 001

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

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Yours faithfully,

(S.K. Ray Mohapatra)
Chief Engineer(PSE&TD)

Copy to: Shri A.P. Singh, Director(Water and Power), UPPTCL, 7th Floor, Shakti Bhawan, 14, Ashok Marg, Lucknow - 226001



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ISO : 9001-2000

No.CEA/SETD/323/2016/29

January 18, 2016

To

✓ Chairman & Managing Director
Maharashtra State Electricity Transmission Co. Ltd.
Prakashganga, Bandra Kurla Complex, Plot No C-19,
E-Block, Bandra (E), MUMBAI – 400 051
Email: cecm@mahatransco.in

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

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Yours faithfully,

(S.K. Ray Mohapatra)
Chief Engineer(PSE&TD)

Copy to: Shri Omprakash K. Yempal, Director(Operation), MSETCL, Prakashganga, Bandra Kurla Complex, Plot No.C-19, E-Block, Bandra(E), Mumbai – 400 051



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ISO : 9001-2000

No.CEA/SETD/ 323/2016/3)

January 18 , 2016

To

Sh. Surinder Kumar Negi,
Managing Director,
Gujarat Energy Transmission Corporation Limited(GETCO)
Sardar Patel Vidyut Bhawan,
Race Course, VADODARA – 390 007
Mobile No. 9879200622

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

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Chief Engineer(PSE&TD)



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ISO : 9001-2000

No.CEA/SETD/ 323/2016/82

January 18 , 2016

To

Chairman & Managing Director,
Rajasthan Rajya Vidyut Prasaran Nigam Ltd.(RRVPL)
Vidyut Bhawan, Janpath
Jaipur – 302 005.

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

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Yours faithfully,

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Chief Engineer(PSE&TD)



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ISO : 9001-2000

No.CEA/SETD/ 323/2016/33

January 18 , 2016

To

✓ Director General
Indian Electrical & Electronics Manufacturers Association (IEEMA)
Rishyamook Building, First Floor
85 A, Panchkuian Road
New Delhi-110 001

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

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Therefore, it is requested to nominate senior level officers representing two manufacturers of High ampacity/ HTLS Conductors as member of the committee [not below the rank of GM/ Chief Engineer/ equivalent]. The first meeting of the committee is scheduled to be held at CEA, Conference Hall, 6th Floor, Sewa Bhawan, R.K. Puram, Sector-I, New Delhi-110066 on January 29, 2016 (Friday) at 2.30 PM.

Yours faithfully,

(S.K. Ray Mohapatra)
Chief Engineer (PSE&TD)

Copy to: Shri J Pande, Sr. Director, IEEMA Rishyamook Building, First Floor 85 A,
Panchkuian Road, New Delhi-110 001



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ISO : 9001-2000

No.CEA/SETD/ 393/2016/34

January 18 , 2016

To

Director General
Indian Electrical & Electronics Manufacturers Association (IEEMA)
Rishyamook Building, First Floor
85 A, Panchkuian Road
New Delhi-110 001

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

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Yours faithfully,

(S.K. Ray Mohapatra)
Chief Engineer(PSE&TD)

✓ Copy to: Shri J Pande, Sr. Director, IEEMA Rishyamook Building, First Floor 85 A,
Panchkuian Road, New Delhi-110 001



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Sewa Bhawan, R.K. Puram, New Delhi - 110066
Website: www.cea.nic.in
PHONE: 26732307 TELEFAX: 26170541



ISO : 9001-2000

No.CEA/SETD/323/2016/35

January 18, 2016

To

✓ Director(Projects)
Power Grid Corporation of India Limited (PGCIL)
Saudamini, Plot No.2, Sector 29
Near IFFCO Chowk,
Gurgaon (Haryana) - 122001, INDIA

Sub: Constitution of Technical Committee to "Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

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In view of above, a Technical Committee comprising of representatives from IEEMA/few manufacturers, users of new generation conductors, CPRI and CEA has been constituted (Copy Enclosed) to discuss various aspects of new generation conductor to rationalize the effective use of such conductors.

Therefore, it is requested to nominate senior level officers two each from CTU and Engineering group dealing with such matter as a Member and alternate Member [Member of the committee not below the rank of GM/Chief Engineer/equivalent and alternate Member not below the rank of AGM/Superintending Engineer/equivalent] of the Committee. The first meeting of the committee is scheduled to be held at CEA, Conference Hall, 6th Floor, Sewa Bhawan, R.K. Puram, Sector-I, New Delhi-110066 on January 29, 2016(Friday) at 2.30 PM.

Yours faithfully,


(S.K. Ray Mohapatra)

Chief Engineer(PSE&TD)

- Copy to: 1) CEO (CTU), PGCIL Saudamini, Plot No.2, Sector 29, Near IFFCO chowk, Gurgaon (Haryana) - 122001, INDIA
2) ED (Engineering-Tr. Line, Substation), PGCIL Saudamini, Plot No.2, Sector 29, Near IFFCO chowk, Gurgaon (Haryana) - 122001, INDIA



Govt. of India
Ministry of Power
Central Electricity Authority
Power System Engg. & Technology Development Div.
Sewa Bhawan, R.K. Puram, New Delhi – 110066
Website: www.cea.nic.in
PHONE: 26732307 TELEFAX: 26170541



ISO : 9001-2000

No.CEA/SETD/ 323/2016/38

January 18 , 2016

To

✓ Director General
Central Power Research Institute (CPRI)
Prof. Sir C.V. Raman Road,
P.B.No. 8066, Sadashivanagar P.O.,
Bangalore - 560 080
Fax No. 91(80) -2360 1213, 2360 2277

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

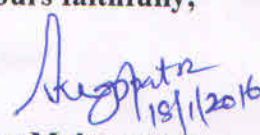
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Chief Engineer(PSE&TD)



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Website: www.cea.nic.in
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ISO : 9001-2000

No.CEA/SETD/323/2016/39

January 18, 2016

To

Managing Director
Calcutta Electric Supply Company Ltd.(CESC)
CESC House, Chowranghee Square
Kolkata – 700 001
Tele: 0222 56040-49
Email: cesclimited@rp.sg.in

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System


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Chief Engineer(PSE&TD)



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ISO : 9001-2000

No.CEA/SETD/ 323/2016/40

January 18 , 2016

To

✓ Director
Torrent Power Ltd.
Electricity House, Lal Darwaja
Ahmedabad – 380001
Email.: jinalmetha@torrentpower.com

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

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Chief Engineer(PSE&TD)



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ISO : 9001-2000

No.CEA/SETD/ 323/2016/41

January 18 , 2016

To

Shri M.V. Kini
Head(Electrical Project Engineering)
Tata Power Company Ltd.
Centre for Technology Excellence
4th Floor, Technopolis Knowledge Park
Mahakali Caves Road, Chakala, Andheri(East)
Mumbai – 400 093

Sub: Constitution of Technical Committee to “Discuss and rationalize the effective use of new generation High Performance Conductor (HPC) [High Temperature / High Temperature Low Sag (HTLS) Conductor] in Indian Transmission & Distribution System

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