



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विधुत प्रणाली परियोजना प्रबोधन प्रभाग
Power System Project Monitoring Division

सेवा में,
(संलग्न सूची के अनुसार)

विषय: Minutes of meeting taken by Chief Engineer (PSPM), CEA on 14-03-2019 to discuss issues associated with construction of Khandwa pool - Indore 765 kV D/C Transmission Line, Warora - Warangal 765 kV D/C Transmission Line and to review Tariff Based Competitive Bidding (TBCB) projects under implementation by M/s Essel Infra.

महोदय,

Minutes of meeting taken by Chief Engineer (PSPM) CEA on 14/03/2019 to discuss issues associated with construction of Khandwa pool - Indore 765 kV D/C Transmission Line, Warora - Warangal 765 kV D/C Transmission Line and review Tariff Based Competitive Bidding (TBCB) projects under implementation by M/s Essel Infra is enclosed at the Annexure.

संलग्नक : यथोपरी ।

भवदीय,

(संजय जैन)
निदेशक

प्रति सूचनार्थ/आवश्यक कार्रवाई हेतु:

1. PPS, Member (Power System), CEA

File No.CEA-PS-13-22(13)/1/2018-PSPM Division

2. Project Director, PIU, Mancherial, National Highways Authority of India (NHAI), H.no. 1-2-21/K16/1B, L.K. Towers, Second Floor, Shivaji Chowk, NIRMAL - 504 106 Distt. Adilabad, Telangana. Tele: 08734-241365
3. Project Director, Project Implementation unit, Indore, National Highways Authority of India (NHAI), 14, Sampat Hills, Opp.Sahara City, Indore Bypass, Bicholi Mardana, Indore, Madhya Pradesh- 452 016 Ph: 0731-4975994 Email: indore@nhai.org, indorenhai@gmail.com

पते की सूची:

Sl. No.	Organization	Address	Tele/Fax No./email
1.	NHAI	Member (Projects), National Highways Authority of India, G 5&6, Sector-10, Dwarka, New Delhi - 110 075	Phone: 91-011-25074100 & 25074200 Fax : 91-011-25093507, 25093514
2.	Warora Kurnool Transmission limited	Chief Executive Officer, Warora-Kurnool Transmission limited (A subsidiary of Essel Infraprojects Ltd.), 6 th floor, plot no.19, film city, sec-16 A, Gautam Buddha Nagar, Noida, U.P-201301	Mobile: 9599221848 Email: neeraj.verma@infra.esselgroup.com
3.	Sterlite Grid Limited	CEO & Business Head Sterlite Grid Limited, The Mira Corporate Suite Plot No.1 & 2. C Block, 2 nd Floor, Ishwar Nagar, Mathura road, New Delhi110065	011- 49962200 (T) 011-49962288 (F) Email: rohit.gera@sterlite.com; tan.reddy@sterlite.com

Annexure

Minutes of meeting taken by Chief Engineer (PSPM), CEA on 14.03.2019 to discuss issues associated with construction of Khandwa pool – Indore 765 kV D/C Transmission Line, Warora – Warangal 765 kV D/C Transmission Line and review Tariff Based Competitive Bidding (TBCB) projects under implementation by M/s Essel Infra.

List of participants is enclosed at **Annexure-II**.

Chief Engineer (PSPM), CEA welcomed the participants. Director (PSPM) initiated the discussion and the details of deliberations held during meeting on the various issues associated with following transmission lines being executed by Transmission Service Providers (TSPs) under TBCB process are as under:

1) 765 kV D/C Khandwa pool – Indore Transmission Line

No representative from NHAI was present during the meeting. However, communication was received from NHAI through mail stating that vertical clearance of at least 25.27 m needs to be maintained for NH crossing because Indore-Dewas section of NH is highly busy and would require vertical development in near future either through high elevated corridor or Metro sort of services.

The representative of M/s Khargone Transmission Ltd. (KTL) informed that maintaining minimum vertical clearance of 25.27 m is not required as per safety regulation of CEA for NH crossing and foundation of towers for NH crossing have already been completed. He requested that the construction of line for crossing of NH may be allowed as per safety regulation and modification, if any, may be taken up as and when required by NHAI as per regulatory framework of CERC.

Chief Engineer (PSPM) said that the similar problems are being faced in other projects. MOP/CERC would be consulted to find a way out for resolving such issues.

2) 765kV D/C Warora – Warangal Transmission Line

No representative from NHAI attended the meeting. However, Project Implementation Unit (PIU) Nirmal, NHAI informed over telephone that NOC for construction of above line for NH crossing is being granted to project developer.

Chief Engineer (PSPM) advised M/s WKTL to contact concerned officers of NHAI for getting NOC and expediting the construction activity of completion of line as per schedule.

3) Review of TBCB projects under implementation by M/s Essel Infra

During the meeting progress of TBCB project being implemented by Essel Infra was also reviewed. Element wise progress as informed by M/s Essel Infra is attached at **Annexure-I**.

The major constraints/ issues associated with various projects as highlighted by M/s WKTL is as follows:

a) Execution of section of line through mining area of Western Coal Fields (WCL) and Singareni Coll. Co. Ltd. (SCCL):

The representative of M/s WKTL informed that as decided in meeting taken by JS (T), MoP dated 04.01.2019, they have gone ahead with construction activities as per route approved u/s 164 of Electricity Act.

b) O&M Agreement of 240 MVAR Switchable Line Reactors with Bays at Warora (Pool) end, pending with PGCIL (Warora):

The representative of M/s WKTL informed that 240 MVAR Switchable Line Reactors with Bays at Warora (Pool) was considered deemed commissioned on 08.12.18. Accordingly, WKTL requested for execution of O&M Agreement with PGCIL (Warora) on 13.08.18 and persuaded through subsequent communications dated 03.10.18, 31.10.18 and 12.12.2018. He requested for support of CEA to expedite the execution of O&M Agreement with PGCIL (Warora).

c) Wildlife Clearance for Warora – Warangal line for forest land falling in Tiger Corridor connecting Kawal Tiger Reserve (Telangana), Taboda Tiger Reserve (Maharashtra) and Indravati Tiger Reserve (Chhattisgarh):

The representative of M/s WKTL informed that as per RFP provided by REC, there was no wildlife sanctuaries/ national parks/Tiger corridor in the route alignment. Forest officials directed WKTL to submit wild life proposal and accordingly, the proposal for wild life clearance was submitted on 26.02.2018. The Proposal was forwarded to National Tiger Conservation Authority (NTCA) for their recommendation and MoEF&CC Delhi has asked state Govt. to submit the MoM of State Board for Wild Life(SBWL) meeting, which is still awaited. Stage-I forest approval of Telangana section was received on 13th Dec 2018. However, wild life approval is awaited.

d) Prior intimation required from RRWTL (Adani Transmission) for the charging of 240 MVAR Switchable Line Reactors with Bays at Warora (Pool) end:

The representative of M/s WKTL informed that a prior intimation is required from Raipur Rajnandgaon Warora Transmission Ltd. (RRWTL) before the actual charging of Rajnandgaon – Warora 765kV D/C Transmission line of RRWTL for timely mobilization of resources for oil re-filtration of all 6 nos. of reactors installed at Warora (Pool) end.

e) Pending NOC from IDPL for traversing Koteshwar – Rishikesh 400 KV D/C Transmission Line through the premises of Indian Drugs and Pharmaceuticals Limited (IDPL), Rishikesh:

The representative of M/s NRSSXXXVI transmission limited has been pursuing with IDPL since 05.12.2017 for getting NoC. However, even after many rounds of discussions with IDPL, NOC from IDPL is still awaited. Pending NOC from IDPL, Forest Deptt.is not agreeing to accept Forest Diversion Proposal.

f) Non-acceptance of Forest diversion proposal of 400 kV D/C Rishikesh-Koteshwar Transmission Line by Forest Deptt :

The representative of M/s NRSSXXXVI transmission limited informed that due to specific conditions (submission of Forest Rights Act (FRA) Certificates etc.) imposed by Forest Deptt., which are beyond the Forest Conservation Amendment (Rules), 2014, the Forest diversion proposal of 400 kV D/C Rishikesh – Koteshwar line is yet to be initiated. While MoEF has already clarified, vide their letter no. F. no. 11-43/2013-FC, dated 26.02.19, to all states for non-requirement of FRA Certificate before stage I approval. M/s NRSSXXXVI transmission limited has attempted to submit forest diversion proposal on 24.10.17, 19.06.18 and 13.11.18, but every time it was rejected by Nodal Officer on account of imposition of specific conditions.

M/s NRSSXXXVI transmission limited requested DC (Dehradun, Tehri Garhwal), vide letters dated 21.06.2018 and 22.06.2018 to grant FRA Certificates and pursued the same regularly. CEA have also taken up the matter with DC (Dehradun, Tehri Garhwal), vide their letter dated 12.10.2018, to issue FRA Certificates.

g) The diversion of route of Rishikesh- Koteshwar 400 kV D/C Line as advised by DFO (Tehri):

The representative of M/s NRSSXXXVI transmission limited, vide their letter dated 21st Dec 2018 informed that DFO Tehri has again directed them to divert the route of line, which was earlier approved & confirmed by Forest Range officer after verification of land schedule and DGPS survey in Jan-2018. M/s NRSSXXXVI transmission limited has submitted the revised route of line avoiding area covered under “Namami Gangey Scheme Plantation” to forest authorities on 13.03.2019, which is under examination by DFO Tehri Garhwal.

h) Requirement of Shut down to complete work of 02 no. of bays at 400 kV Babai (RRVPNL) S/s:

The representative of M/s WKTL informed that Rajsthan Rajya Vidyut Prasaran Nigam Ltd. (RRVPNL) was requested on 08.12.2018 and 28.12.2018 for shut down of main bus-2 at 400 kV Babai S/s (RRVPNL) to complete the erection works of 2 nos. of 400 kV bays for Babai – Bhiwani 400 kV D/C Transmission line. The request for Shutdown was turned down by RRVPNL on above days under the plea that shut down would be considered only after completion of all works at 400kV Babai S/s by M/s A2Z. Due to non- availability of shut down by RRVPNL, man and machine of M/s WKTL are remaining idle at site for last four months.

M/s WKTL requested the support of CEA for resolution of above mentioned issues.

CE (PSPM) assured to provide all possible support to expedite the works at site and would take up various issues raised by WKTL and KTL with competent authority

Meeting ended with vote of thanks to the chair.

Element wise progress of the TBCB projects being implemented by M/s Essel infra

Name of transmission project - Development of Additional Inter regional AC link for import into Southern region i.e Warora-Warangal and Chilakaluripeta – Hyderabad – Kurnool 765 kV link

General Detail

Special Purpose Vehicle (SPV)	:	Warora Kurnool Transmission Ltd. (A subsidiary of Essel Infracorp. Ltd)
Bid Process Coordinator (BPC)	:	PFCCCL
Estimated Cost (Rs. crs)	:	4805
Request for Qualification	:	11.09.2015
Request for Proposal	:	30.11.2015
Letter of Intent	:	29.02.2016
Transmission Service Agreement (TSA)	:	06.01.2016
SPV acquisition	:	06.07.2016
Transmission License by CERC	:	29.09.2016
Tariff adoption by CERC	:	30.08.2016
Contract Performance Guarantee	:	01.07.2016
Clearance u/s 164	:	Gazette publication on 10.07.2017
Execution plan submitted to CEA	:	02.11.2016
EPC contract awarded on	:	30.08.2016
Scheduled Date of Completion	:	Nov-2019
Anticipated Date of Completion	:	Nov-2019

Status of elements of progress of transmission project

1. Establishment of 765/400 kV substations at Warangal (New) with 2X1500 MVA transformers and 2X240 MVAR bus reactors.

Land Acquired	:	100%.
Civil work completed	:	47%
Equipment supplied	:	60% substation material 10 no. of reactors
Equipment erection	:	Nil
Scheduled COD	:	Nov'19
Anticipated COD	:	Nov'19

2. Warora (Pool) – Warangal (New) 765 kV D/C line with 240 MVAR switchable line reactor at both ends

Length	:	645.742 ckm
Locations	:	827 nos.
Foundation completed	:	764 nos.
Tower erected	:	407 nos.
Stringing completed	:	Nil
Scheduled COD	:	Nov'19
Anticipated COD	:	Nov'19

3. Warangal (New) – Hyderabad 765 kV D/C line with 240 MVAR switchable line reactor at Warangal end of each circuit.

Length	: 265.218 ckm
Locations	: 344 nos.
Foundation completed	: 308 nos.
Tower erected	: 237 nos.
Stringing completed	: Nil
Scheduled COD	: Nov'19
Anticipated COD	: Nov'19

4. Warangal (New) – Warangal (existing) 400 kV (quad) D/C line

Length	: 94.94 ckm
Locations	: 130 nos.
Foundation completed	: 04 no's
Tower erected	: Nil
Stringing completed	: Nil
Scheduled COD	: Nov'19
Anticipated COD	: Nov'19

5. Hyderabad- Kurnool 765 kV D/C line with 240 MVAR switchable line reactor at Kurnool end of each circuit

Length	: 331.58 ckm
Locations	: 422 nos.
Foundation completed	: 325 nos.
Tower erected	: 182 nos.
Stringing completed	: Nil
Scheduled COD	: Nov'19
Anticipated COD	: Nov'19

6. Warangal (New) – Chilakaluripeta 765 kV D/C line with 240 MVAR switchable line reactor at both ends of each circuit

Length	: 394.33 ckm
Locations	: 565 nos.
Foundation completed	: 441 nos.
Tower erected	: 339 nos.
Stringing completed	: Nil
Scheduled COD	: Nov'19
Anticipated COD	: Nov'19

7. 240 MVAR Switchable Line Reactors with Bays at Warora (Pool) end in each circuit of Warora (Pool)- Rajnandgaon 765kV D/c line with NGR (700 Ohm)

Land Acquired	: NA
Civil work completed	: 100%.
Equipment supplied	: 100%
Equipment erection	: 100%
Scheduled COD	: Nov'18
Actual COD	: Dec'18

**Under deemed commercial operation w.e.f. 08.12.2018.*

Name of transmission project - System strengthening in northern region (NRSS XXXVI) along with LILO of Sikar-Neemrana 400 kV D/C line at Babai (RVPNL)

General Details

Special Purpose Vehicle (SPV)	:	NRSS XXXVI Trans.Ltd (ESSEL)
Bid Process Coordinator (BPC)	:	RECTPCL
Estimated Cost (Rs. Crs.)	:	437
Request for Qualification	:	25.08.2015
Request for Proposal	:	12.11.2015
Date of Letter of Intent	:	29.03.2016
Transmission Service Agreement (TSA)	:	13.01.2016
SPV acquisition	:	22.08.2016
Transmission License by CERC	:	07.12.2016
Tariff adoption by CERC	:	14.12.2016
Contract Performance Guarantee	:	11.08.2016
Clearance u/s 164	:	01.11.2017
Execution plan submitted to CEA	:	20.12.2016
EPC awarded on	:	20.01.2017
Scheduled Date of Completion	:	June 2019/Dec 2019

Status of progress of transmission project

1. Koteshwar Pooling Station - Rishikesh 400kV D/C (HTLS) line

The route alignment & detailed survey is completed.

Tower Package is awarded. Check survey is under progress.

Length	:	81 CKm
Locations	:	106 nos
Foundation completed	:	14 nos
Tower erected	:	Nil
Stringing completed	:	Nil
Scheduled COD	:	Dec'19

2. 2 Nos. 400 kV bays at Rishikesh S/S

Land Acquired	:	NA
Civil work completed	:	Nil
Equipment supplied	:	Nil
Equipment erection	:	Nil
Scheduled COD	:	Dec'19
Anticipated COD	:	Nil

3. LILO of one ckt of 400 kV D/c Sikar (PG) – Neemrana (PG) line at Babai

Length:	2.922 CKm
Locations:	06 nos.

Deemed COD of the Element is declared on 30th Oct 2017 due to non-readiness of RVPN System. Element charged on 16 Feb 2018 after readiness of RVPN System.

4. Babai (RRVPNL) – Bhiwani (PG) D/C line

The route alignment & detailed survey is completed.

Tower Package is awarded.

Length : 221 CKm
Locations : 299 nos.
Foundation completed : 263 nos.
Tower erected: : 209 nos
Stringing completed : Nil
Scheduled COD : Jun'19
Anticipated COD : Jun'19

5. 2 Nos. 400 kV bays at Babai (RRVNL) substation for LILO Line

Land Acquired : 100%
Civil work completed : 100%
Equipment supplied : 100%
Equipment erection : 100%
Scheduled COD : Dec'16
Deemed COD : 30 Oct'17

Deemed COD of the Element is declared on 30th Oct 2017 due to non-readiness of RVPN System. Element charged on 16 Feb 2018 after readiness of RVPN System.

6. 2 Nos. 400 kV bays at Babai (RRVNL) substation for Bhiwani Line

Land Acquired: 100%
Civil work completed: 100%
Equipment supplied: 84%
Equipment erection: 23%
Scheduled COD :Jun'19

List of Participants

CEA

- | | |
|-------------------------------------|------------------------|
| 1. SHRI S.K.RAY MOHAPATRA | CHIEF ENGINEER (PSPM) |
| 2. SHRI SANJAY JAIN | DIRECTOR (PSPM) |
| 3. SHRI AJITESH KUMAR | DEPUTY DIRECTOR (PSPM) |
| 4. SHRI DHANESH KUMAR
(PSPM) | ASSISTANT DIRECTOR-I |
| 5. SHRI YADAV MANOJ KUMAR
(PSPM) | ASSISTANT DIRECTOR-II |

WKTL (Essel group)

- | | |
|--------------------------|---------------|
| 1. SHRI NIMISH SHETH | VP |
| 2. SHRI NEERAJ VERMA | MANAGER |
| 3. SHRI RAJNISH MEHROTRA | HEAD (TRANS.) |

KTL (SGL)

- | | |
|-------------------|----|
| 1. SHRI TAN REDDY | VP |
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