

No. 03/ITP-18/15-16/WKTL/11-RFQ

September 14, 2015

Joint Secretary (Transmission)
Ministry of Power
Shram Shakti Bhawan,
New Delhi – 110 001.

Subject: Publishing Revised RfQ notice and Revised RfQ Documents for Selection of the Transmission Service Provider for establishing transmission system for "Additional inter-Regional AC link for import into Southern Region i.e. Warora-Warangal and Chilakaluripeta-Hyderabad-Kurnool 765kV link" on the website of MoP

Madam,


The RfQ process for the subject transmission scheme "Additional inter-Regional AC link for import into Southern Region i.e. Warora-Warangal and Chilakaluripeta-Hyderabad-Kurnool 765kV link" was initially initiated on April 23, 2015. Subsequently, CEA vide its letter No. 52/7/ 2015- PSP&PA-II/ dated 28.08.2015 had informed that due to the difficulty in obtaining Right of Way (RoW) at existing Hoody 400 kV S/S for Cuddapah-Hoody 400 kV Line, the scope of the transmission scheme has been modified by dropping Cuddapah-Hoody 400 kV D/C element (200 km) (Copy enclosed). Further, CEA advised PFCCL to redo the RfQ process with the modified scope. In view of this, the bidding process is being re-initiated.

The bid process for selection of Transmission Service Provider (TSP) for establishing transmission system for "Additional inter-Regional AC link for import into Southern Region i.e. Warora-Warangal and Chilakaluripeta-Hyderabad-Kurnool 765kV link" has been re-initiated with the publication of RfQ notice on September 11, 2015 (copy of the RfQ notification enclosed). The last date for submission of Responses to RfQ is October 12, 2015.

It is requested that in line with the requirements of the Guidelines (clause 9.2 of Tariff based Competitive-bidding Guidelines for Transmission Service), the RfQ Notice and RfQ document may be published on the website of Ministry of Power. The soft copy of the RfQ Notice and RfQ document has been mailed separately at the email address transdesk-mop@nic.in. We are also enclosing herewith the RFQ documents for your kind information, perusal and records please.

Thanking you

Yours sincerely,


14/09/2015
(Sanjay Nayak)
AVP

Encl.: As Above

Government of India
Ministry of Power
Central Electricity Authority
Power System Planning & Project Appraisal –II Division
Sewa Bhawan, R.K. Puram, New Delhi – 110066

No. 52/7/ 2015- PSP&PA-III 91-94

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Date: 24-Aug-2015

To

1. COO(CTU), Power Grid Corp. of India Ltd. "Saudamini", Plot No.2, Sector-29, Gurgaon 122 001, Haryana. FAX : 95124-2571932	2. CEO, PFC Consulting Ltd, 1 st Floor, "Urjanidhi" 1, Barakhamba Lane, Connaught Place, New Delhi-110001 Fax:+91 11 23456170
3. CEO, REC Transmission Projects Company Core – 4, Scope Complex 7, Lodhi road , New Delhi-110003 Fax: + 91 11 47964747.	

Subject: Change in scope of the schemes (i) "Strengthening of transmission system beyond Vemagiri", and (ii) "Additional inter-regional AC links for import of power into Southern Region", being implemented under TBCB

- Reference:**
1. PGCIL letter no. C/ENG/CTU/S/RECTPCL dated 09.05.2015
 2. PGCIL letter no. C/CTU-Plg./S/CEA/GZ dated 13.04.2015
 3. PGCIL letter no. C/CTU-Plg./REC dated 07.04.2015
 4. PGCIL letter no. C/ENG/CTU/S/PFCCL dated 29-04-2015
 5. KPTCL letter no. CEE (P&C)/SEE(Plg.)/EE (PSS)/KCO-97/34318/2015/16 dated 30.07.2015
 6. PFCCL letter no. 03/ITP-215-16/WKTL/RFQ dated 10.07.2015
 7. CEA letter no. 100/11/PFC-17/2015—SP & PA/1668-69 dated 27.07.2015
 8. Gazette (Extraordinary) No. 329, Part-II- Section 3 -Sub section (ii) dated February 9, 2015

Sir/Madam,

1. This has reference to various proposals / reasons for changes in the scope of the following schemes being implemented under Tariff Based Competitive Bidding (TBCB):
 - (i) "Strengthening of transmission system beyond Vemagiri" - bidding by RECTPCL
 - (ii) "Additional inter-regional AC links for import of power into Southern Region" - bidding by PFCCL

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2. The changes in scope of these two schemes would be required mainly because of the following reasons:
- Changes in rating (MVA_r) of some of the line reactors at various locations due to change in estimated length of the lines found out after preliminary survey by the BPCs.
 - Inconsistency in the scope of the scheme 'as notified in the gazette' viz-a-viz the 'scope as agreed in the Standing Committee on Power System Planning in the Southern Region (SCPSPSR)'.
 - Difficulty in obtaining Right of Way at existing Hoody 400kV S/S for the Cuddappah – Hoody 400kVD/c line under scope of (ii) scheme.
 - The suggestion to keep the line bays and switchable line reactors, at Chilakaluripeta end of Warangal – Chilakaluripeta 765 kV D/c line, in the scope of (i) scheme in place of in the scheme(ii), due to ease of implementation and O&M.
3. To discuss the modifications in the scope of these two schemes, a meeting was held in the O/o CE(PSP&PA-II), CEA with officials from CTU, RECTPCL and PFCCL on 19-Aug-2015. Minutes of the meeting are enclosed. Based on these discussions, the scope of the two schemes is being modified as given in the following tables under Annex-I.

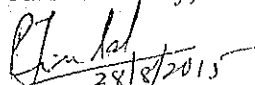
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|--|----------------------|
| 1. Modified scope of the scheme - "Strengthening of transmission system beyond Vemagiri" - bidding by RECTPCL | Table – I / Annex-I |
| 2. Modified scope of the scheme - "Additional inter-regional AC links for import of power into Southern Region" - bidding by PFCCL | Table – II / Annex-I |

Accordingly, we give our in-principle approval for the change in scope of these schemes which are being implemented under TBCB.

- The 'Modified Scope' is proposed to be taken up in the forthcoming meeting of the Standing Committee on Power System Planning of Southern Region and would be notified in the Gazette after taking up in the Empowered Committee.
- However, in the meantime, PFCCL and RECTPCL may continue the bidding process, with the modified scope, so that the two schemes can be completed in time. Further, PFCCL is advised to redo the RfQ with the modified scope.

This issues with the approval of Member(Power System).

Yours faithfully,


 (Pardeep Jindal)
 28/8/2015
 Director (PSP&PA-II)

Enc/1; As above.

Copy to:

CE (PSP&PA-I Division), CEA : For information and further necessary action please.

Table – I : The modified scope of the “Strengthening of transmission system beyond Vemagiri” (RECTPCL as BPC) scheme is given below:

Scope as per Gazette Notification	Modified Scope
(i) Vemagiri-II – Chilakaluripeta 765kV D/C line with 240 MVAR switchable line reactors at both ends.	(i) Vemagiri-II – Chilakaluripeta 765kV D/C line with 240 MVAR switchable line reactors at both ends of each circuit. <u>(The line bays and line reactors at Chilakaluripeta to be in the scope of TSP and those at Vemagiri end in the scope of CTU).</u>
(ii) Chilakaluripeta – Cuddapah 765kV D/C line with 240 MVAR switchable line reactors at both ends.	(ii) Chilakaluripeta – Cuddapah 765kV D/C line with 240 MVAR switchable line reactors at both ends of each circuit. <u>(The line bays and line reactors at Chilakaluripeta to be in the scope of TSP and those at Cuddapah end in the scope of CTU).</u>
(iii) Chilakaluripeta – Narsaraopeta 400kV (quad) D/C line	(iii) Chilakaluripeta – Narsaraopeta <u>(Sattenapalli) 400kV (quad) D/C line</u> <u>(The line bays at both ends to be in the scope of TSP)</u>
(iv) Cuddapah – Madhugiri 400kV (quad) D/C line with 80 MVAR switchable line reactors at both ends.	(iv) Cuddapah – Madhugiri 400kV (quad) D/C line with <u>50 MVAR</u> switchable line reactors at both ends of each circuit <u>(The line bays and reactors at both ends to be in the scope of CTU)</u>
(v) Cuddapah – Hindupur 400kV (quad) D/C line with 80 MVAR switchable line reactors at Hindupur end.	(v) Srikakulam Pooling Station – Garividi 400 kV (Quad) D/C line <u>(The line bays at Garividi end to be in the scope of TSP and those at Srikakulam Pooling Station end in the scope of CTU).</u>
(vi) Srikakulam Pooling Station – Garividi 400 kV (Quad) D/C line with 80 MVAR switchable line reactor at Garividi end.	(v) Srikakulam Pooling Station – Garividi 400 kV (Quad) D/C line <u>(The line bays at Garividi end to be in the scope of TSP and those at Srikakulam Pooling Station end in the scope of CTU).</u>

No reactor ?



Scope as per Gazette Notification	Modified Scope
<p>(vii) Establishment of 765/400 kV substation at Chilakaluripeta with 2x1500 MVA transformers and 2x240 MVA bus reactors each. Transformers: 765/400 kV, 7 x 500 MVA (One unit spare)</p>	<p>(vi) Establishment of 765/400 kV substation at Chilakaluripeta with 2x1500 MVA transformers and 2x240 MVA bus reactors each. Transformers: 765/400 kV, 7x500 MVA (Single-Phase units with one spare)</p>
<p><u>765 & 400 kV Bay Requirements</u></p> <p>(i) 765 kV line bays at Chilakaluripeta: 4 no.</p> <p>(ii) 765/400 kV Transformer bays at Chilakaluripeta: 2 no.</p> <p>(iii) 400 kV line bays Chilakaluripeta : 2 no.</p> <p>(iv) Space for future 765 kV line bays at Chilakaluripeta: 6 no.</p> <p>(v) Space for future 400 kV line bays at Chilakaluripeta: 8 no.</p>	<p><u>765 kV Bays (at Chilakaluripeta)</u></p> <p>ICT bays : 2 nos.</p> <p>Line bays : 4 nos.</p> <p>765 kV Bus Reactor Bays : 2 nos.</p> <p>Spare bays (Space) : 6 nos.</p> <p><u>400 kV Bays</u></p> <p>ICT bays : 2 nos.</p> <p>Line bays : 2 nos.</p> <p>Spare bays (Space) : 8 nos.</p>
<p>Note:</p> <p>CTU to provide two nos. 765 kV bays at Vemagiri-II Pooling station for Vemagiri-II – Chilakaluripeta 765 kV D/C line</p> <p>CTU to provide requisite no. of 765 kV and 400 kV bays and line reactors for termination of transmission lines at Cuddapah</p> <p>CTU to provide two nos. 400kV bays & line reactors at Madhugiri 400 kV substation for Cuddapah – Madhugiri 400kV (quad) D/C line</p> <p>CTU to provide two nos. 400 kV bays at Srikakulam 400kV substation for Srikakulam Pooling Station – Garividi 400 kV (Quad) D/C line</p>	<p>(vii) <u>Note about provision of line reactors and bays:</u></p> <p>a) CTU to provide 2 nos. 765kV line bays along with 240 MVA switchable line reactors at Vemagiri-II Pooling station for termination of Vemagiri-II – Chilakaluripeta 765kV D/c line.</p> <p>b) CTU to provide 2 nos. 765kV line bays along with 240 MVA switchable line reactors at Cuddapah 765/400kV substation for termination of Chilakaluripeta – Cuddapah 765kV D/c line.</p> <p>c) CTU to provide 2 nos. 400kV line bays along with 50 MVA switchable line reactors at Cuddapah 765/400kV substation for termination of Cuddapah – Madhugiri 400kV (quad) D/c line.</p> <p>d) CTU to provide 2 nos of 400kV line bays along with 50 MVA switchable line reactors at Madhugiri 400kV substation for termination of Cuddapah – Madhugiri</p>

Scope as per Gazette Notification	Modified Scope
	400kV (quad) D/c line. e) CTU to provide 2 nos. 400kV line bays at Srikakulam 400kV substation for termination of Srikakulam Pooling Station – Garividi 400 kV (Quad) D/c line. f) APTRANSCO to provide space for 2 no 400 kV line bays at Narsaraopeta (Sattenapalli) 400kV sub- station g) APTRANSCO to provide space for 2 no 400 kV line bays at Garividi 400kV sub- station

Note-1:

- CTU: Central Transmission Utility
- APTRANSCO: AP Transmission Company Limited
- TSP: Transmission Service Provider

Note - 2: The “Cuddapah – Hindupur 400kV (quad) D/C line with 80 MVAR switchable line reactors at Hindupur end” has been given to CTU for implementation under compressed time schedule.

Table – II : The modified scope of the “Additional inter-regional AC links for import of power into Southern Region” (PFCCCL as BPC) scheme is given below:

Transmission Scheme as per Gazette Notification	Modified Scope
1. Establishment of 765/400kV substations at Warangal (New) with 2x1500 MVA transformers and 2x240 MVAR bus reactors Transformers: 765/400 kV, 7x500 MVA (One unit Spare)	1. Establishment of 765/400kV substations at Warangal (New) with 2x1500 MVA transformers and 2x240 MVAR bus reactors. Transformers: 765/400 kV, 7x500 MVA (Single-Phase units with one spare)
<u>765 & 400 kV Bay Requirements</u>	<u>765 kV & 400 kV Bay Requirements (in Warangal)</u>
(i) 765 kV line bays : 6 no. (ii) 765/400 kV Transformer bays : 2 no. (iii) 400 kV line bays : 2 no. (iv) Space for future 765 kV line bays : 6 no.	(i) 765 kV line bays : 6 nos. (ii) 765 kV Transformer bays : 2 no. (iii) 400kV Transformer bays : 2 no. (iv) 400 kV line bays : 2 no. (v) Space for future 765 kV line bays : 6 no.

Transmission Scheme as per Gazette Notification	Modified Scope
(v) Space for future 400 kV line bays : 8 no	(vi) Space for future 400 kV line bays : 8 no
2. Warora Pool – Warangal (New) 765kV D/c line with 240 MVAR switchable line reactor at both ends	2. Warora Pool – Warangal (New) 765kV D/c line with 240 MVAR switchable line Reactor at both ends of each circuit (The line bays and reactors at both ends to be in the scope of TSP)
3. Warangal (New) –Hyderabad 765 kV D/c line with 330 MVAR switchable line reactor at Warangal end	3. Warangal (New) –Hyderabad 765 kV D/c line with 240 MVAR switchable line reactor at Warangal end of each circuit. (The line bays and reactors at Warangal end to be in the scope of TSP and the line bays at Hyderabad end in the scope of CTU)
4. Warangal (New) – Warangal (existing) 400 kV (quad) D/c line	4. Warangal (New) – Warangal (Existing) 400 kV (quad) D/c line (The line bays at Warangal (New) end to be in the scope of TSP and the line bays at Warangal (Existing) end in the scope of CTU)
5. Hyderabad – Kurnool 765 kV D/c line with 240 MVAR switchable line reactor at Kurnool end	5. Hyderabad – Kurnool 765 kV D/c line with 240 MVAR switchable line reactor at Kurnool end of each circuit (The line bays and reactors in the scope of CTU)
6. Warangal (New) – Chilakaluripeta 765kV D/c line with 240 MVAR switchable line reactor at both ends	6. Warangal (New) – Chilakaluripeta 765kV D/c line with 240 MVAR switchable line reactor at both ends of each circuit. (The line bays and reactors at both ends to be in the scope of TSP)
7. Cuddapah – Hoodi 400kV (quad) D/c line with 63 MVAR switchable line reactor at both ends	
<p>Note :</p> <p>i) Warora Pool developer to provide space for two nos. 765 kV line bays at Warora Pool for termination of Warora Pool – Warangal (New) 765kV D/c line alongwith 240 MVAR switchable line reactor</p> <p>ii) CTU to provide two nos. 765 kV bays at Hyderabad for termination of Warangal (New) –Hyderabad 765 kV</p>	<p>7. <u>Note about provision of line reactors and bays</u></p> <p>i) Warora Pool developer to provide space for 2 nos. 765 kV line bays at Warora Pool for termination of Warora Pool – Warangal (New) 765kV D/c line with 240 MVAR switchable line reactor</p> <p>ii) CTU to provide 2 nos. 765 kV bays at Hyderabad for termination of Warangal</p>

Transmission Scheme as per Gazette Notification	Modified Scope
<p>D/c line</p> <p>iii) CTU to provide two nos. 765 kV bays at Hyderabad for termination of Hyderabad – Kurnool 765 kV D/c line</p> <p>iv) CTU to provide two nos. 765 kV line bays at Kurnool for Hyderabad – Kurnool 765 kV D/c line with 240 MVAR switchable line reactor at Kurnool end</p> <p>v) CTU to provide four nos. 400 kV bays at Warangal (existing) for Warangal (New) – Warangal (existing) 400 kV (quad) D/c line</p> <p>vi) M/s KPTCL to provide two nos. 400 kV bays at Hoodi for termination of Cuddapah – Hoodi 400kV (quad) D/c line along with 63 MVAR switchable line reactors</p>	<p>(New) –Hyderabad 765 kV D/c line</p> <p>iii) CTU to provide 2 nos. 765 kV bays at Hyderabad for termination of Hyderabad – Kurnool 765 kV D/c line</p> <p>iv) CTU to provide 2 nos. 765 kV line bays along with 240 MVAR switchable line reactor at Kurnool end for Hyderabad – Kurnool 765 kV D/c line.</p> <p>v) CTU to provide 2 nos. 400 kV bays at Warangal (existing) for Warangal (New) – Warangal (existing) 400 kV (quad) D/c line</p>

Note-1:

- CTU: Central Transmission Utility
- APTRANSCO: AP Transmission Company Limited
- TSP: Transmission Service Provider

Note - 2: The “Cuddapah – Hoodi 400kV (quad) D/c line with 63 MVAR switchable line reactor at both end” has to be reviewed in later stage, therefore the same is now deleted from the scope of this scheme.

