

पीएफसी कंसिल्टंग लिमिटेड

(पावर फाइनेंस कॅापोरेशन लिमिटेड की पूर्णतःस्वामित्वाधीन सहायक कंपनी)

PFC CONSULTING LIMITED

(A wholly owned subsidiary of Power Finance Corporation Limited) CIN U74140DL2008GOI175858

September 14, 2015

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

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 Competitivebidding 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.

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-II/ 91-94

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, 1st 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\PFGCL 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

EVP (U#2)

Sh. Nayak, AVP Dhan

- 2. The changes in scope of these two schemes would be required mainly because of the following reasons:
 - a) Changes in rating (MVAr) 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.
 - b) 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)'.
 - c) Difficulty in obtaining Right of Way at existing Hoody 400kV S/S for the Cuddappah Hoody 400kVD/c line under scope of (ii) scheme.
 - d) 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.
 - 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.

- 4. 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.
- 5. 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) Director (PSP&PA-II)

Enc/l; 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:

	ope 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/line with 240 MVAr switchable line reactors at both ends of each circuit. (The line bays and line reactors at Chilakaluripeta to be in the scope of TS) and those at Vemagiri end in the scope of CTU).
(ii)	Chilakaluripeta – Cuddapah 765kV D/C line with 240 MVAr switchable line reactors at both ends.	(ii) Chilakaluripeta – Cuddapah 765kV D/O line with 240 MVAr switchable line reactors at both ends of each circuit. (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).
(iii)	Chilakaluripeta – Narsaraopeta 400kV (quad) D/C line	(iii) Chilakaluripeta — Narsaraopeta (Sattenapalli) 400kV (quad) D/C line (The line bays at both ends to be in the scope of TSP)
(iv) (v)	Cuddapah – Madhugiri 400kV (quad) D/C line with 80 MVAr switchable line reactors at both ends. Cuddapah – Hindupur 400kV (quad)	(iv) Cuddapah – Madhugiri 400kV (quad) D/C line with 50 MVAr switchable line reactors at both ends of each circuit (The line bays and rectors at both ends to be in the scope of CTU)
	D/C line with 80 MVAr switchable line reactors at Hindupur end.	
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 (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).

Scope as per Gazette Notification

(vi) E

(vii) Establishment of 765/400 kV substation at Chilakaluripeta with 2x1500 MVA transformers and 2x240 MVAr bus reactors each.

Transformers: 765/400 kV, 7 x 500 MVA (One unit spare)

765 & 400 kV Bay Requirements

- (i) 765 kV line bays at Chilakaluripeta: 4 no.
- (ii) 765/400 kV Transformer bays at Chilakaluripeta: 2 no.
- (iii) 400 kV line bays Chilakaluripeta: 2 no.
- (iv) Space for future 765 kV line bays at Chilakaluripeta: 6 no.
- (v) Space for future 400 kV line bays at Chilakaluripeta: 8 no.

Note:

CTU to provide two nos. 765 kV bays at Vemagiri-II Pooling station for Vemagiri-II – Chilakaluripeta 765 kV D/C line

CTU to provide requisite no. of 765 kV and 400 kV bays and line reactors for termination of transmission lines at Cuddapah

CTU to provide two nos. 400kV bays & line reactors at Madhugiri 400 kV substation for Cuddapah — Madhugiri 400kV (quad) D/C line

CTU to provide two nos. 400 kV bays at Srikakulam 400kV substation for Srikaukulam Pooling Station – Garividi 400 kV (Quad) D/C line

Modified Scope

(vi) Establishment of 765/400 kV substation at Chilakaluripeta with 2x1500 MVA transformers and 2x240 MVAr bus reactors each.

Transformers: 765/400 kV, 7x500 MVA (Single-Phase units with one spare)

765 kV Bays (at Chilakaluripeta)

ICT bays : 2 nos.

Line bays : 4 nos.

765 kV Bus Reactor Bays : 2 nos.

Spare bays (Space) : 6 nos.

400 kV Bays

ICT bays : 2 nos.
Line bays : 2 nos.
Spare bays (Space) : 8 nos.

(vii) Note about provision of line reactors and bays:

- a) CTU to provide 2 nos. 765kV line bays along with 240 MVAr switchable line reactors at Vemagiri-II Pooling station for termination of Vemagiri-II Chilakaluripeta 765kV D/c line.
- b) CTU to provide 2 nos. 765kV line bays along with 240 MVAr switchable line reactors at Cuddapah 765/400kV substation for termination of Chilakaluripeta Cuddapah 765kV D/c line.
- c) CTU to provide 2 nos. 400kV line bays along with 50 MVAr switchable line reactors at Cuddapah 765/400kV substation for termination of Cuddapah Madhugiri 400kV (quad) D/c line.
- d) CTU to provide 2 nos of 400kV line bays along with 50 MVAr switchable line reactors at Madhugiri 400kV substation for termination of Cuddapah – Madhugiri

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
	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 substation

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.

<u>Table - II:</u> The modified scope of the "Additional inter-regional AC links for import of power into Southern Region" (PFCCL as BPC) scheme is given below:

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

Jey

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 rectors 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 rectors 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		
6. Warangal (New) – Chilakaluripeta 765kV D/c line with 240 MVAr switchable line reactor at both ends		
7. Cuddapah – Hoodi 400kV (quad) D/o line with 63 MVAr switchable line reactor at both ends	1	
Note:	7. Note about provision of line reactors and	
i) Warora Pool developer to provide space for two nos. 765 kV line bays a	bays t	
Warora Pool for termination of Warora Pool — Warangal (New 765kV D/c line alongwith 240 MVA switchable line reactor	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	
ii) CTU to provide two nos. 765 kV bay at Hyderabad for termination o Warangal (New) –Hyderabad 765 kV	f ii) CTU to provide 2 nos. 765 kV bays at	

J.

Transmission Scheme as per Gazette	Modified Scope
Notification	
D/c line	(New) –Hyderabad 765 kV D/c line
iii) CTU to provide two nos. 765 kV bays at Hyderabad for termination of Hyderabad – Kurnool 765 kV D/c line	iii) CTU to provide 2 nos. 765 kV bays at Hyderabad for termination of Hyderabad – Kurnool 765 kV D/c line
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	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.
v) CTU to provide four nos. 400 kV bays at Warangal (existing) for Warangal (New) – Warangal (existing) 400 kV (quad) D/c line	v) CTU to provide 2 nos. 400 kV bays at Warangal (existing) for Warangal (New) – Warangal (existing) 400 kV (quad) D/c line

Note-1:

CTU:

line reactors

Central Transmission Utility

APTRANSCO:

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

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.

GLOBAL INVITATION FOR QUALIFICATION FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND MAINTAIN (BOOM) BASIS FOR "ADDITIONAL INTER-REGIONAL ACLINK FOR IMPORT INTO SOUTHERN REGION : E WARDRA-WARANGAL AND CHILAKAL URIPETA-HYDERABAD-KURNOOL 765KV LINK"

The scheme for "Additional inter-Regional AC link for import into Southern Region 16. Warcoa-Warangal and Chilakeluripeta-Hyderchad-Kumool 755kV link" forwhich the bidding process was initiated on 23.04.2015, the scope of the scheme has been modified. In wernot this, the bidding process is being re-initiated.

PPC Consulting Limited, a wholly owned subsidiary of Power Finance Copocation Limited (A Government of India Undertaking), the Bid Process Coordinator appointed by Marishy of Power Finance Copocation Limited above Transmission Project on Build, Own, Operate and Maritain (BOOM) basis following two stage process of "Request for Qualification" (RIQ) and "Request for Proyosaf (RIP), Bidders may obtain the RIO document on all working days: between 10.30 hrs. (IST) and 16.00 hrs. (IST) from 11.09.2015 to 30.00 hrs. (IST) and 16.00 hrs. (IST) from 11.09.2015 to 120.2015 on payment of a non-retinatable fee of Rs., 10.10 Mills. or USD 2.000 in the form of demand draft in favour of PPC Consulting Limited Toyagable at New Delin, from 5s. Vio. 10.00 Mills. or USD 2.000 in the form of demand draft in favour of Place, New Delin, 11.0001, IGI: 51-11.2245144; Fax: 91-11.2345170 e-malt produpperprintal-com. The RIQ course of one of the downloaded from PFCOL wassis www.ptoclindia.com. however, in such case, carrierated party can submit Response to RIO only on submission of non-returnable fee of Rs. 1.00.0006, or USD 2.000 separately along with the Response to RIO.

on submission of non-relundazie lee or res. Two your-on ODD zoob septialary and, you mine inseptials on you. Stockers who had submissed RRO in the sometimes to RRO saffer for the project "Additional relevance to RRO saffer for the project "Additional relevance ARO or had submission to "Avore-Vieranga and Chilafalurpola-Hyderabad-Adumool TableV with can obtain the RRO free of oris. The fast date for bidders to seek clarification is 24.09.2015 and the last date of submission of RRO is 12.10.2015 at or before 15:00 free (ST). Response to RRO will be opened on the same day at 16:30 furs (IST).

Bidders should regularly visit website to keep themselves updated regarding darifications / amendments / time extensions. etc.. if any.

Note: PFC Consulting Limited reserves fire right to cancel or modify the process without assigning any reason and without any liability.

rs is not an offer.

PFC Consulting Limited

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Registered Offices: First Ploor "Urjanidh", 1, Barakhamba Lane. Connaught Place. New Delhi- 110001, India

Bid Process Coordinator

An initiative of

Ministry of Power

Sovernment of India

(A wholly owned subsidiary of PFC Ltd.)
(A wholly owned subsidiary of PFC Ltd.)

Central Electricity Authority

Initiative Partner

 $12(w) \times 10(h)$

पीएफसी कसल्टिंग लिमिटेड

अक्षितेस जांतर – बोना एसी तिकश्न दिश्व ज्यात बनेता – वारंगत और पिताकसुरिपेट – दैरराबाद – कुरनून 766 केंगी तिकमें आतात के तिए' निर्मा स्वाधित प्रांतरात के तिरों दे पियक आगंत्रण ।
तथा गणना अतिहास जार – अनेत एमें सिल कुट दोशने ६७ ज्यात बनेतर – वारंगत और निरम कुने पिट – हेटरज्य – वारंगत ने कि पिट में
प्राप्त के दिश् है किसके देश दिशेया प्रक्रित को 204 है। अपने किया नाम जा वायंत्रण के तिरमार भी नगादित किया नाम है।

पीएफकी करपटिनो सिमिटेब, गुरु शहरील होन्दिन (भारत एरबार मा ट्रांका) में एक हुन स्वतित्व बनी प्रकारक वार्या से सिक वीका के दिन सिक्स कारण होता पामाणक सिक्स किया गया है जिसकी जार से सिम्बीसिट को भरूर जानी प्रविधा में प्राथम के किए अनुकि (सारप्पका) तक प्रवास के किए अनुकि (आरपटिन) के ब्रधार पर मिर्माय स्वतिधा, क्षात्म कीय स्वाप्तका (कीरोजीएन) के जायार पर सिक्स प्रवास कीय स्वाप्तका (कीरोजीएन) के जायार पर परिचा एमासी समीधा काम के एसास आमिन किए तता है।

निर्माताम महें दिस्ती में हेण सीनियर बाइस धेरीबेंट, बहता तह, 'क्योनियें, त बापका तेन, कर्नाट प्तपा ने दिस्से 1909., हेली 91-11-23458144 किया 91-14-2348110 है-मेंच pfoolly@picindia.com ने पीएमी कानिया विविद्ध के गया में दिस्ति कुण्ड के सन के 16, 160,000-14 2,000 कानिया से कानियें युक्त में एमाम होता 11.09,2015 में 30.08.2015 का 40.09 को बाना हो में 16.00 को (माम्स) के बीच को काने विवास में कान्यका कुण्डोंक प्रतास का कर्मा है। वायर कान्यका व्यवस्तितिक की विवास 2010 कानियें के अस्ति के कुण्डोंस कुल्क कुण्डान अस्तर में समी हो।

निविधानकर किस्सीन पर्छली शंत उत्तरीय अप्ता – बारान और विस्तरमुक्तिया – देरपान – कुरमून तर्ड गणे दिया ने आपात में लिए अतिविधान अप – केंग्रीय एक्टी केंग्रीय कुरम यान करने अस्तिय कुरम यान करने विभिन्न प्राप्त प्राप्त केंग्रीय कुरम यान किया विभिन्न यान करने विभाग विभिन्न यान करने विभाग विभिन्न यान किया यान किया विभाग का अस्तिय विभाग विभाग विभाग करने विभाग विभिन्न यान किया विभाग यान किया विभाग किया विभाग करने विभाग किया प्राप्त विभाग विभाग विभाग किया विभाग करने विभाग किया विभाग व

सिरियाकर स्वयोक्तरणे / समस्य / समय आग बदान के विवय में सम्पत्नी और बोहें भी मित्रीय एक से पेन्यपूट रेमें। हिम्मी, सिर्फ्ति क्रमीटिंग निरिटेट के कई कहन ततार क्षिम शया किसे दिम्मित के किन प्रक्रिय को पर पा मिक्रीट करने का अपिकार है।

पीएफसी कंसन्टिंग निमिदेड

(बान्स अपूर्वस्य कोर्योरक्तम सिनियेत को एक पूर्व स्वतिस्व बानी पाइपक कम्पी – बान्त परकार का क्यामां क्रीकुन कार्यास्त्रः । पदस्य (त्य, 'फार्टानिकि'' 1, बाराज्या तेन , क्योंट परेग, गुर्दे रिस्ती – 1100रा, बारत

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केंद्रीय विध्युत प्राधिकरण

12(w) x 10(h)