



Power Sector – PEM Noida
Technical Pre - Qualification Requirements
(For Open Tender)

Sheet 1 of 1

PROJECT: TALCHER THERMAL POWER
PROJECT STAGE-III (2X660 MW)

PACKAGE: NDCT

DEPARTMENT:- MSE

REVISION:- REV. 00

4.3 Natural Draught Cooling tower

4.3.1 The Bidder should have designed/ got designed, constructed and commissioned at least one (1) number of Natural Draught Cooling Tower in RCC construction with splash/ modular/ trickle type fill of capacity not less than 30000 Cu.M/Hr and which should have been in successful operation for at least one (1) year as on 06.06.2022.

4.3.2 Bidder who fulfills the requirements in Clause 4.3.1 above with fill type other than splash/modular/trickle type fill, can also participate provided Bidder associates/ collaborates with a cooling tower designer who has independently designed a Natural Draught Cooling Tower in RCC construction with splash/modular/trickle type fill, of capacity not less than 30000 Cu.M/ Hr and which should have been in successful operation for at least one (1) year as on 06.06.2022.

In such a case, the Bidder should furnish a letter of technical support jointly executed by it and its Cooling Tower Designer for the satisfactory performance of Cooling Towers as per the format enclosed in the bidding document. This letter of technical support should be submitted to NTPC/ BHEL prior to the placement of order on approved Bidder.

NOTE

A). In case the reference cooling tower was designed by a party other than the Bidder himself, the Bidder shall employ a cooling tower designer who has independently designed a Natural Draught Cooling Tower in RCC construction with splash/modular/trickle type fill, of capacity not less than 30000 Cu.M/ Hr and which should have been in successful operation for at least one (1) year as on 06.06.2022.

In such a case, the Bidder should furnish a letter of technical support jointly executed by it and its Cooling Tower Designer for the satisfactory performance of Cooling Towers as per the format enclosed in the bidding document. This letter of technical support should be submitted to NTPC/ BHEL prior to the placement of order on approved Bidder.

B). In case the reference cooling tower was constructed by a party other than the Bidder himself, the Bidder shall employ a construction agency who has independently executed the construction works of RCC Natural Draught Cooling Tower of capacity not less than 30000 Cu.M/ Hr or has constructed minimum 100m tall RCC Chimney using slipform/ jumpform, and which should have been in successful operation for at least one (1) year as on 06.06.2022.

In such a case, the Bidder should furnish a letter of technical support jointly executed by it and the agency which is qualified for construction of Cooling Tower for the satisfactory execution of Cooling Towers construction work as per the format enclosed in the bidding document. This letter of technical support for providing special construction equipment and expert supervision during construction should be submitted to NTPC/BHEL prior to the placement of order on approved Bidder.

General notes of the PQR are as under:

1.0	Bidder to submit supporting documents in English. If documents submitted by bidder are in language other than English, a self-attested English translated document should also be submitted .
2.0	Notwithstanding anything stated above, BHEL/Customer reserves the right to assess the capabilities and capacity of the bidder to perform the contract, should the circumstances warrant such assessment in overall interest of BHEL/Customer.
3.0	Consideration of offer shall be subject to customer's approval of bidder.
4.0	After satisfactory fulfilment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all other terms of the tender.

PROVENNESS OF COOLING TOWER

I. (A) Details of Natural draught Cooling Towers (as per clause 4.3 of Sub-Section-IA, Part-A, Section-VI of Bidding Documents)

In support of Sub-Qualifying Requirements of Clause 4.3 of Sub-Section-IA, Part-A, Section-VI of Bidding Document, we confirm that We/our Sub-vendor have designed/got designed, constructed and commissioned at least one (1) number of Natural Draught Cooling Tower in RCC construction with splash/modular/trickle type fill of capacity not less than 30000 Cu.M/Hr and which should have been in successful operation for at least one (1) year.

The details of the reference cooling tower is furnished below:

Sl. No.	Description/Details	Plant
1.	Description of Work and Name of Client	.....
2.	Location/Address of the Plant/works	.....
3.	Address of the Client (including Contact Person Name, Telephone No, e-mail etc.)	.....
4.	No. of Cooling Towers	.....
5.	Capacity of each Cooling Tower (Cu.M/hr.)	.....
6.	Type of Fill (splash/modular/trickle type)	.....
7.	Type of Construction	.....
8.	Whether scope of works included	
	(a) Design of Cooling Towers by Bidder/its Sub-vendor	YES*/NO*
	(b) Construction of Cooling towers	YES*/NO*
	(c) Commissioning of Cooling towers	YES*/NO*
9.	Date of Commissioning of the Cooling tower	

Signature of authorized signatory.....

Note: Terms "We/ our sub-vendor", "Bidder/ its sub-vendor", "Bidder/ sub vendor" and "Sub-vendor" terms may be read as Bidder.

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| 10. | Certificate from client to substantiate Bidder's QR data is enclosed at Annexure to this Attachment-3K | YES*/NO* |
| 11. | Whether the reference cooling tower at sl. No. 1 is designed by the bidder/ sub vendor | YES*/NO* |
| 12. | Whether the reference cooling tower at sl. No. 1 is got designed by bidder/ sub vendor | YES*/NO* |
| 13. | Whether Documentary evidence/ certificate(s) from client enclosed for the above data | Yes* / No* |

● * Strike off whichever is not applicable.

Date	:	(Signature).....
Place	:	(Printed Name).....
		(Designation).....
		(Common Seal).....

(Bidder / Sub vendor)

Signature of authorized signatory.....

Note: Terms "We/ our sub-vendor", "Bidder/ its sub-vendor", "Bidder/ sub vendor" and "Sub-vendor" terms may be read as Bidder.

I. (B) Details of Natural draught Cooling Towers (as per clause 4.3 of Sub-Section-IA, Part-A, Section-VI of Bidding Documents

In support of Sub-Qualifying Requirements of Clause 4.3 of Sub-Section-IA, Part-A, Section-VI of Bidding Document, we confirm that We/our Sub-vendor who fulfills the requirements in Clause 4.3.1 of Sub-Section-IA, Part-A, Section-VI of Bidding Documents with fill type other than splash/modular/trickle type fill, we associates/collaborates with a cooling tower designer who has independently designed a Natural Draught Cooling Tower in RCC construction with splash/modular/trickle type fill, of capacity not less than 30000 Cu.M/ Hr and which should have been in successful operation for at least one (1) year

We/our Sub-vendor furnish a letter of technical support jointly executed by it and its Cooling Tower Designer for the satisfactory performance of Cooling Towers as per the format enclosed in the bidding document.

The details of the reference cooling tower is furnished below:

Sl. No.	Description/Details	Plant
1.	Description of Work and Name of Client	.....
2.	Location/Address of the Plant/works	.....
3.	Address of the Client (including Contact Person Name, Telephone No, e-mail etc.)	.....
4.	No. of Cooling Towers	.....
5.	Capacity of each Cooling Tower (Cu.M/hr.)	.....
6.	Type of Fill (Other than splash/modular/trickle type) Bidder to Specify the type of fill	.....
7.	Type of Construction	.....
8.	Whether scope of works included	
	(a) Design of Cooling Towers by Bidder/its Sub-vendor associate/Collaborator	YES*/NO*
	(Name of Designer)	.....

Signature of authorized signatory.....

Note: Terms "We/ our sub-vendor", "Bidder/ its sub-vendor", "Bidder/ sub vendor" and "Sub-vendor" terms may be read as Bidder.

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| (b) | Construction of

Cooling towers | YES*/NO* |
| (c) | Commissioning of
Cooling towers | YES*/NO* |
| 9. | Date of Commissioning of the
Cooling tower | |
| 10. | Certificate from client to
substantiate Bidder's QR data is
enclosed at Annexure
to this Attachment-3K | YES*/NO* |
| 11. | Whether the reference cooling tower
at sl. No. 1 is designed by the bidder/ sub vendor | YES*/NO* |
| 12. | Whether the reference cooling tower
at sl. No. 1 is designed by
Sub-vendor's own engineers | YES*/NO* |
| 13. | Whether Documentary evidence/
certificate(s) from client enclosed
for the above data | Yes* / No* |

● * Strike off whichever is not applicable.

Date	:	(Signature).....
Place	:	(Printed Name).....
		(Designation).....
		(Common Seal).....
Date	:	(Signature).....
Place	:	(Printed Name).....

(Bidder / Sub vendor / Associate/ Collaborate)

Signature of authorized signatory.....

Note: Terms "We/ our sub-vendor", "Bidder/ its sub-vendor", "Bidder/ sub vendor" and "Sub-vendor" terms may be read as Bidder.

I. (C) Details of RCC Natural draught Cooling Towers (as per clause 4.3 of Sub-Section-IA, Part-A, Section-VI of Bidding Documents)

In support of Sub-Qualifying Requirements of Clause 4.3 of Sub-Section-IA, Part-A, Section-VI of Bidding Document, we confirm that We/our Sub-vendor shall employ a cooling tower designer who has independently designed a Natural Draught Cooling Tower in RCC construction with splash/modular/trickle type fill, of capacity not less than 30000 Cu.M/ Hr and which should have been in successful operation for at least one(1) year.

We/our Sub-vendor furnish a letter of technical support jointly executed by it and its Cooling Tower Designer for the satisfactory performance of Cooling Towers as per the format enclosed in the bidding document.

The details of the reference cooling tower is furnished below:

Sl. No.	Description/Details	Plant
1.	Description of Work and Name of Client	.....
2.	Location/Address of the Plant/works	.....
3.	Address of the Client (including Contact Person Name, Telephone No, e-mail etc.)	.....
4.	No. of Cooling Towers	.....
5.	Capacity of each Cooling Tower (Cu.M/hr.)	.....
6.	Type of Fill (splash/modular/trickletype)	.....
7.	Type of Construction	.....
8.	Whether scope of works included	
	(a) Design of Cooling Towers by Bidder/its Sub-vendor Designer	YES*/NO*
	Name of the designer	.....
	(b) Construction of Cooling towers	YES*/NO*
	(c) Commissioning of Cooling towers	YES*/NO*

Signature of authorized signatory.....

Note: Terms "We/ our sub-vendor", "Bidder/ its sub-vendor", "Bidder/ sub vendor" and "Sub-vendor" terms may be read as Bidder.

9. Date of Commissioning of the Cooling tower
10. Certificate from client to substantiate Bidder's QR data is enclosed at Annexure to this Attachment-3K YES*/NO*
11. Whether the reference cooling tower at sl. No. 1 is designed by the bidder/ sub vendor YES*/NO*
12. Whether the reference cooling tower at sl. No. 1 is designed by Sub-vendor's own engineers YES*/NO*
13. Whether Documentary evidence/ certificate(s) from client enclosed for the above data Yes* / No*

● * Strike off whichever is not applicable.

Date : (Signature).....

Place : (Printed Name).....

(Designation).....

(Common Seal).....

(Designation).....

(Common Seal).....

(Bidder / Sub vendor / Designer)

Signature of authorized signatory.....

Note: Terms "We/ our sub-vendor", "Bidder/ its sub-vendor", "Bidder/ sub vendor" and "Sub-vendor" terms may be read as Bidder.

ATTACHMENT - 3K**I. (D) Details of RCC Natural draught Cooling Towers (as per clause 4.3 of Sub-Section-IA, Part-A, Section-VI of Bidding Documents)**

In support of Sub-Qualifying Requirements of Clause 4.3 of Sub-Section-IA, Part-A, Section-VI of Bidding Document, we confirm that We/our Sub-vendor shall employ a cooling tower construction agency who has independently executed the construction works of RCC Natural Draught Cooling Tower of capacity not less than 30000 Cu.M/ Hr or has constructed minimum 100m tall RCC Chimney using slipform/ jumpform , and which should have been in successful operation for at least one(1) year.

We/our Sub-vendor furnish a letter of technical support jointly executed by it, its Cooling Tower Designer and construction agency for the satisfactory performance of Cooling Towers.

The details of the reference cooling tower is furnished below:

Sl. No.	Description/Details	Plant
1.	Description of Work and Name of Client	.....
2.	Location/Address of the Plant/works	.....
3.	Address of the Client (including Contact Person Name, Telephone No, e-mail etc.)	.....
4.	No. of Cooling Towers/Chimney	.....
5.	Capacity of each Cooling Tower (Cu.M/hr.)/ height of chimney	.....
6.	Type of Fill (splash/modular/trickletype)	.....
7.	Type of Construction	.....
8.	Whether scope of works included (a) Construction of Cooling Towers/chimney By Bidder/its Sub-vendor	YES*/NO*
	Name of the construction agency	.....
	(b) Construction of cooling towers/ Chimney by Bidder/its Sub-vendor	YES*/NO*
	(c) Commissioning of cooling towers/ chimney	YES*/NO*

Signature of authorized signatory.....

Note: Terms "We/ our sub-vendor", "Bidder/ its sub-vendor", "Bidder/ sub vendor" and "Sub-vendor" terms may be read as Bidder.

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| 9. | Date of Commissioning of the Cooling tower/Chimney | |
| 10. | Certificate from client to substantiate Bidder's QR data is enclosed at Annexure to this Attachment-3K | YES*/NO* |
| 11. | Whether the reference cooling tower/Chimney at sl. No. 1 is constructed by the bidder/ sub vendor | YES*/NO* |
| 12. | Whether the reference cooling tower/Chimney at sl. No. 1 is constructed by Sub-vendor's own engineers | YES*/NO* |
| 13. | Whether Documentary evidence/ certificate(s) from client enclosed for the above data | Yes* / No* |

● * Strike off whichever is not applicable.

Date :	(Signature).....
Place :	(Printed Name).....
	(Designation).....
	(Common Seal).....
	(Designation).....
	(Common Seal).....

(Bidder / Sub vendor / Designer / Construction Agency)

Signature of authorized signatory.....

(On Company's Letter Head)

**LETTER OF SUPPORT FOR SATISFACTORY EXECUTION of NATURAL DRAUGHT
COOLING TOWERS CONSTRUCTION WORK
for Talcher-III Power Project Package**

TO,

[EMPLOYER'S NAME & ADDRESS]

Sub: Letter of Technical Support submitted From (name of the Construction/Erection Agency) undertaking the responsibility for satisfactory execution and completion of Natural Draught Cooling Towers Construction Work.

Dear Sirs,

1. In accordance with the Award of the Contract by (Name of the Contractor) to M/s. (Name of the sub-vendor), we, the aforesaid Construction/Erection agency shall be fully responsible for the satisfactory execution and completion of Natural Draught Cooling Towers (NDCT) Construction Work.
2. Further, the manner of achieving the objective set forth in point 1 above shall be as follows for Natural Draught Cooling Towers Construction Work.
 - a. We shall be fully responsible for construction/erection of NDCT as per the construction drawings/design and extend all necessary support for putting into satisfactory operation, the NDCT, to the satisfaction of the Employer.
 - b. We shall provide special construction equipment and expert supervision during construction of the NDCT.
 - c. We shall promptly carry out all the corrective measures and shall promptly undertake replacements, rectifications or modifications to the NDCT as and when required by Employer in case the NDCT fails to demonstrate successful performance as per contract at site.
 - d. We shall participate in Technical Co-ordination meetings (TCMs) from time to time, as and when required by the Employer.
3. We, the Construction/Erection Agency do hereby undertake and confirm that this Letter of Technical Support shall be valid until the end of defect liability period of the contract.

Signature of authorized signatory.....

ATTACHMENT - 3K

Signature of the Authorised Representative...

For M/s

(Associate*/Collaborator*/Technology provider*/Licensor*)

Address

Name

Designation

Date:.....

Common Seal of the Company

***: Strike off whichever is not applicable.**

Signature of authorized signatory..... .

Note: Terms "We/ our sub-vendor", "Bidder/ its sub-vendor", "Bidder/ sub vendor" and "Sub-vendor" terms may be read as Bidder.

**FORMAT FOR FILLING THE DETAILS OF PROVENNESS
LETTER OF SUPPORT FOR SATISFACTORY PERFORMANCE OF
(EQUIPMENT/SYSTEM NAME) FOR
TALCHER-III STPP (2X660MW)**

TO

[EMPLOYER'S NAME & ADDRESS]

Sub: Letter of Technical Support submitted From (name of the Associate*/Collaborator*/ Technology provider* / Licensor* / Holding Company*) undertaking the responsibility for satisfactory performance of(Name of the equipment/system*).

Dear Sirs,

1. In accordance with the Award of the Contract by (Name of the Contractor) to M/s. (Name of the sub-vendor), we, the aforesaid Associate*/Collaborator*/Technology provider*/Licensor*/Holding Company, (M/s) shall be fully responsible for the satisfactory performance of the(Name of the equipment/system*).
2. Further, the manner of achieving the objective set forth in point 1 above shall be as follows
For (Name of the equipment/system*):
 - (a) We shall be fully responsible for design, engineering & commissioning and extending all necessary support for putting in to satisfactory operation and carrying out the Guarantee Tests for(Name of the equipment/system*) to the satisfaction of the Employer.
 - (b) We shall depute technical experts to Bidder's/sub-vendor's works for supervision during manufacturing, assembly, inspection, as and when required by Employer. We shall participate in site erection, commissioning and final testing (as and when necessary) of the.....(Name of the equipment/system*).
 - (c) We shall participate in Technical Co-ordination meetings (TCMs) from time to time, as and when required by Employer.
 - (d) We shall promptly carry out all the corrective measures and shall promptly provide corrected design and shall undertake replacements, rectifications or modifications to the equipment/system* as and when required by Employer in case the equipment/system* fails to demonstrate successful performance as per contract at site.
3. We, the Associate*/Collaborator*/Technology provider*/Licensor*/Holding company* do hereby undertake and confirm that this Letter of Technical Support shall be valid for a period of seven (7) years or up to the end of defect liability period of the contract, whichever is later.

Signature of the Authorised Representative:.....

For M/s

(Associate*/Collaborator*/Technology provider*/Licensor*/Holding company)

Name

Designation

Date:.....

Common Seal of the Company

***: Strike off whichever is not applicable.**

Signature of authorized signatory.....

Note: Terms "We/ our sub-vendor", "Bidder/ its sub-vendor", "Bidder/ sub vendor" and "Sub-vendor" terms may be read as Bidder.