

NTPC Limited
CC-OS, EOC Noida

Subject: Qualifying requirement & other details for vendor enlistment – supply of High Life Wear Resistant Coal Nozzle Tips.

A)	Details of MEG (Material Enlistment Group)	
	MEG No	46MEG-45
	MEG Description	<u>High Life Wear Resistant Coal Nozzle Tips.</u>
	Responsibility Centre	CC&M-CPC
B)	Technical Criteria of QR:	
	<u>Option-1</u>	
	i)	The applicant should have manufactured and supplied wear resistant lined/ coated products for high temperature application to Power/ Steel/ Aluminum/ Metal/ Cement Industries by the process of Coating/ weld-overlay/ cladding/ any other techniques during last five years from the date of enlistment application. and
	ii)	The applicant should have manufactured & supplied stainless steel coal nozzle tips/ Wear resistant Coal nozzle tips/ stainless steel coal compartment assembly for coal fired Boilers having capacity 200MW or higher.
	iii)	The applicant should have following in-house fabrication facilities for manufacturing of coal nozzle tip / coal compartment assembly. a. Plasma Cutting Machine b. Machining Facilities c. Welding Facilities d. Portable metal analyser e. Lining / coating on coal nozzle tips
	<u>Option-2</u>	
	i)	The applicant should be a manufacturer of Boilers of 100 MW or above capacity & should have supplied such boilers at two different locations in India.
C)	Documents to be submitted as proof of meeting the stipulated Qualifying Requirements:	
	<u>Option-1 :-</u>	
	i.	QR at (i) - Copy of PO & execution proofs like invoices, inspection reports etc. for the mentioned items.
	ii.	QR at (ii) - Copy of PO & execution proofs like invoices, inspection reports etc. for stainless steel coal nozzle tips/ stainless steel coal compartment assembly for coal fired Boilers having capacity 200MW or higher
	iii.	QR at (iii):- a) Declaration regarding in-house availability of stipulated machines along with make/ model of the machines, proof of ownership of such machines

	<p><u>Option-2:-</u></p> <ul style="list-style-type: none"> i) Self- declaration regarding Boiler Manufacturing Capability as required in the QR ii) Details of Boilers supplied in India <p>NTPC can ask more documents if felt necessary. Also all documents/ facilities can be verified/ assessed if required.</p> <p>Applicant should mention in his letter pad under which Option they are applying for enlistment.</p> <p>To be declared as qualified, an applicant has to meet all the requirements either of option-1 or those of option-2.</p>		
D)	<p>Other documents to be submitted:</p> <p>In addition to the documents required in support of meeting technical requirements as stated above, following documents are required to be submitted by the applicant for enlistment:</p> <ol style="list-style-type: none"> 1. Three POs of highest executed values of similar work during last five years from the date of application (PO date should not be more than five (5) years old as on the date of the application) along with copy of invoice / completion certificate from the concerned buyer/s in support of successful execution of supply against POs. 2. Audited balance sheet including profit and loss statement for the previous three completed financial years reckoned from the date of application. <p>In case the audited results for the preceding financial year is not available, certification of financial statements from a practicing chartered account may be submitted. In case, Applicant is not able to submit the certificate from practicing chartered Account certifying its financial parameters, the audited results of three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters. Further a Certificate would be required from the CEO/CFO as per the format enclosed in the application format documents stating that the financial results of the company are under audit as on the date of Application and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available</p> <ol style="list-style-type: none"> 3. Any other documents in addition to the above which the applicant wants to submit. 		
E)	<table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">Note-1</td> <td>Definition of Similar work (Refer to Point 1 of Row D above):- Supply of Coal Nozzle Tips / Coal Compartment assembly for Boilers of 200MW or higher capacity or Wear resistant lined/ coated/ clad items to Power/ Steel/ Aluminum/ Metal/ Cement Industries.</td> </tr> </table>	Note-1	Definition of Similar work (Refer to Point 1 of Row D above):- Supply of Coal Nozzle Tips / Coal Compartment assembly for Boilers of 200MW or higher capacity or Wear resistant lined/ coated/ clad items to Power/ Steel/ Aluminum/ Metal/ Cement Industries.
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A) Details of MEG	
MEG No	46MEG-45
MEG Description	High Life Wear Resistant Coal Nozzle Tips
Responsibility Centre	CC&M-CPC
B) Technical Specifications <ol style="list-style-type: none"> 1. High Life Wear Resistant Coal Nozzle Tips as per the drawing provided by NTPC Site. 2. Base plate of the tip should be SS310 & wear resistant coating / weld overlay lining etc. suitable for working at high temperature and firm fusion / bonding with base material should be done as per manufacturing standard to meet the minimum guaranteed life of 17000 running hours. 	



ITEM: WEAR RESISTANT COAL
NOZZLE TIP

QUALITY PLAN

REVIEWED BY:

APPROVED BY:

QP NO.:
REV. NO: 0
DATE: 20.03.2018

VALID UP TO:

PAGE 1 OF 2

S.N.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORM	FORMAT OF RECORD	AGENCY			REMARKS
					M	C/N				M	C	N	
1.	2.	3.	4.	5.	6.	7.	8.	9.	D*	10.	11.		

RAW MATERIAL													
1.0	Plate	Chemical Analysis & Mechanical Properties	Major	Chemical & Mechanical	One/heat	One/heat	Appvd Drg/DS /P.O. Spec	Appvd Drg/DS /P.O. Spec	TC	√	P	V	V
IN PROCESS INSPECTION													
2.0	Welding	WPS,PQR & WPQ	Major	Mechanical, Visual & NDT	100%	100%	AWS D 1.1/ASME SEC-IX	AWS D 1.1 /ASME SEC-IX	WPS/PQR/ WPQ Record	√	P	V	-
2.1	Joint Fit up	Visual & Dimensional	Major	Visual, Measurement	100%	-	Mifs Drg.	Mifs Drg.	IIR	-	P	-	-
2.2	Weld joints	NDT	Major	DPT	100%	100%	IS - 3658/ ASTM E165/Mifs Procedure	No linear indication	IIR	√	P	V	V
2.3	Wear resistance	Hardness	Major	Measurement	100%	100%	Mifs Practice	Mifs std/Drg.	IIR	√	P	V	V
2.4	Hard facing /weld overlay/coating/fining												
FINAL INSPECTION													
3.0	Finished Nozzle tip	Visual & Dimension	Critical	Visual & Measurement	100%	Random 10%/lot	Appd. Drg. /DS/ P.O. Specn	Appd. Drg. /DS/ P.O. Specn	IR	√	P	W	W

PKV
27.03.2018
कुमार / PRABODH KUMAR
अधीनस्थ (प्रारंभिक)
अधीनस्थ (प्रारंभिक) (OS)
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LEGEND: * RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION.
** M: MANUFACTURER/SUB-SUPPLIER C: MAIN SUPPLIER. N: NTPC P: PERFORM W: WITNESS AND V: VERIFICATION. AS APPROPRIATE, CHP: NTPC SHALL IDENTIFY IN COLUMN "N" AS "W" DPT-Dye penetration testing. NDT-Non destructive testing

FORMAT NO.: QS-01-QAI-P-10/F1-RI

1/2

1/2

ENG. DIV./QA&I

Note: # NTPC Inspection Engineer to check, approval date/ revision no. of reference documents at the time of inspection



ITEM: WEAR RESISTANT COAL
NOZZLE TIP

QUALITY PLAN

QP NO.:
REV. NO: 0
VALID UP TO:
DATE :20.03.2018

REVIEWED BY:
APPROVED BY:

S.N.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORM	PAGE 2 OF 2	FORMAT OF RECORD	AGENCY			REMARKS
					M	C/N					M	C	N	
1.	2.	3.	4.	5.	6.	7.	8.	9.	D*	10.	11.			

3.2	Finished Nozzle tip	Hardness of hard-faced/weld overlay/coated/lined surface	Critical	Measurement by metal analyser	1 coupon / offered lot	1 coupon/ offered lot	Mifs Practice	Mifs std/Drg.	IR	✓	P	W	W	Coupon to be separated in presence of NTPC representative
3.3		Chemical property of High alloy material for hard facing/ weld overlay /coating/lining	Critical	PMI check by metal analyser	-do-	-do-	-do-	-do-	IR	✓	P	W	W	
3.4		NDT of weld joints	Critical	DPT	100%	Random 10% / lot	IS - 3658/ ASTM E165/Mifs procedure	No linear indication	IR	✓	P	W	W	
3.5	Finished Nozzle tip base plate	Chemical Properties	Critical	PMI check by metal analyser	100%	Random 5% / Lot	Appd. Drg. /DS/ P.O. Specn	Appd. Drg. /DS/P.O. Specn	IR	✓	P	W	W	

Note: -

- All relevant codes/standards/documents to be arranged by vendor during PDI.
- All instruments/Tools should be duly calibrated and tests are to be conducted at vendor's cost during PDI.
- Lot shall be considered as total quantity offered for inspection at a time.

TC-Test certificate, IIR-Internal Inspection Report, IR- Inspection Report

(Signature)
ABODH KUMAR
 सहायक प्रबंधक (प्रशासन विभाग)
 Addl. General Manager (OS)
 एन टी पी लिमिटेड / NTPC Limited

(Signature)
 27/03/18
 मधुसूदन शर्मा
 Sr. Ingr (QA-Q&I)

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ENGG. DIV./QA&I

(Handwritten marks)