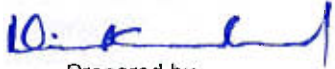
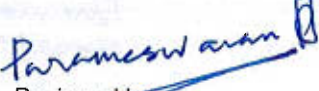
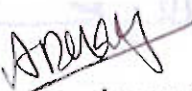


		Bharat Heavy Electricals Limited, Piping Centre, Chennai. List of Raw material Manufacturer approved by NTPC for Piping and Tank Fabrication with Vendor material		QCP : 17 Rev : 02 Date : 29.03.2016
Sl	Vendor Name	Location	Material	Remarks
A) PIPES (Seamless) : CS - Carbon steel ; SS - Stainless Steel				For Sl. 1 to 22 :- Refer Anneuxre-I :QCP:17:Rev01 dt:12/04/2011 for NTPC approval
1	BHEL / SSTP	Trichy	CS	
2	ISMT LIMITED	Baramathi / Pune	CS	
3	JINDAL SAW	Gujarat	CS	
4	MAHARASTRA SEAMLESS LTD	Maharashtra	CS	
5	REMI EDELSTAL TUBULARES LTD (upto 10")	Mumbai / Tarapur	SS, CS	
6	RATNAMANI METALS & TUBES LTD (upto 10")	Ahmedabad / Kutch	SS	
7	BENTELER STAHL/ROHR GMBH & CO.KG.	Germany	CS	
8	DALMINE	Italy	CS	
9	SALZGITTER MANESSMANN STAINLESS (DMV STAINLESS)	France, Italy, Germany	SS	
10	HUTA BATORY SA	Poland	CS	
11	JFE, JAPAN (formerly Kawasaki Corpn.)	Japan	CS, SS	
12	NIPPON STEEL	Japan	CS, SS	
13	TENARIS GLOBAL (NKK TUBES)	Japan	CS	
14	PRODUCTOS TUBULARES S.A.U	Spain	CS	
15	ROMAN CORPORATION	Korea	SS	
16	SIDERCA S.A.I.C	Argentina	CS	
17	SUMITOMO CORPORATION	Japan	CS, SS	
18	TENARIS DALMINE S.P.A	Italy	CS	
19	TUBACEX	Spain	SS	
20	TUBOS REUNIDOS S.A.	Spain	CS	
21	VALLOUREC & MANNESMANN TUBES	France, Germany	CS	
22	WYMAN-GORDON FORGINGS INC.	USA	CS	
23	ARCELORMITTAL TUBULAR PRODUCT ROMAN	Romania	CS	For Sl. 23 to 31 :- Refer Anneuxre-II : Ref :01/CQA/gs dt : 24/02/2016 for NTPC approval
24	HENGYANG STEEL TUBE GROUP INT'L	China	CS	
25	JIANGSU CHENGDE TUBE SHARE	China	CS Upto Dia 219mm	
26	RINGMILL	Italy	Forged CS Pipes	
27	VALCONVY TRUB CHOMUTOV	CZECH REP.	CS	
28	BAOSHAN IRON & STEEL CO. LTD	China	CS Upto Dia 88.9mm	
29	TENARIS GLOBAL (SILCO TUBES)	Romania	CS Upto Dia 159mm	
30	IBF SPA	Italy	CS	
31	YANGZHOU CHENGDE STEEL PIPE CO. LTD.	China	CS	
B) PIPES (Welded):IS 1239, IS 3589, SA 672, API & SS.				Refer Annexure-V for North Karanpura-3X660MW
1	JINDAL PIPES (ERW) UPTO 14 INCH	Ghaziabad	IS 1239, IS 3589, API	
2	LALIT PIPES AND PIPES LIMITED (LS welded)	Mumbai	IS 3589, SA 672	
3	MAHARASTRA SEAMLESS LTD(ERW UPTO 20	Raigad, Maharashtra	IS 3589	
 Prepared by Vivekananda Yellu Sr.Engr/QA		 Reviewed by Parameswaran.H DGM/QA		 Approved by Madhavankutty A.P. AGM / Quality



Bharat Heavy Electricals Limited, Piping Centre, Chennai.
List of Raw material Manufacturer approved by NTPC for
Piping and Tank Fabrication with Vendor material

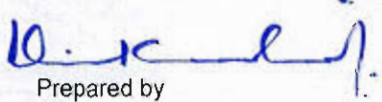
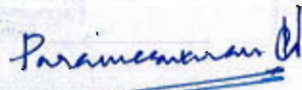
QCP : 17
Rev : 02
Date : 29.03.2016

SI	Vendor Name	Location	Material	Remarks
4	MAN INDUSTRIES (INDIA) LTD. (LS & Spiral welded)	Pithampur/Gujarat	IS 3589,SA 672	For Sl. 1 to 48 :- Shall be as per BHEL's Internal System
5	PSL LIMITED (Spiral welded)	Vizag/Chennai/Gujarat	IS 3589	
6	RATNAMANI METALS & TUBES LTD (LS & Spiral welded)	Kutch	IS 3589, SA672,API & SS	
7	STEEL AUTHORITY OF INDIA LTD	India	IS 3589,API	
8	SURYA ROSHNI LTD (ERW) UP TO 16 INCH	Bahadurgarh,Haryana	IS 1239,IS 3589,API	
9	TATA STEEL LIMITED	Jamshedpur	IS 1239	
10	WELSPUNE GUJARAT STAHL LS & Spiral welded)	Gujarat / Mandya	IS 3589	
11	SAMSHI PIPES INDUSTRIES LTD (formerly GPT	Vadodhara	IS 3589 (Spiral welded)	
12	SURYA GLOBAL STEEL TUBE LTD (Spiral welded)	Gujarat	IS 3589	
13	ADVANCE STEEL TUBES LTD	GHAZIABAD	IS 3589	
14	APL APOLLO TUBES LIMITED,	DELHI	IS 1239	
15	BHUSHAN STEEL LIMITED,	DIST- RAIGAD.	IS 3589	
16	CAPACITE STRUCTURES LTD. (PRATHIBA PIPE	MUMBAI	IS 3589	
17	CHOKSI TUBE CO.LTD.	MUMBAI	SS	
18	CRIMSON METAL ENGINEERING CO.LTD.	CHENNAI	IS 1239	
19	ESSAR STEEL INDIA LTD	HAZIRA	IS 3589	
20	GAURANG PRODUCTS PVT LTD	GHAZIABAD	IS 1239, IS 3589	
21	GOOD LUCK STEEL TUBES LTD	GHAZIABAD	IS 1239, IS 3589	
22	HI-TECH PIPES LIMITED,	NEW DELHI	IS 3589	
23	HYUNDAI CORPORATION	South Korea	IS 3589	
24	INDUS TUBES LTD	NEW DELHI	IS 1239, IS 3589	
25	JCO GAS PIPE LTD.	NEW DELHI	IS 3589	
26	JINDAL (INDIA) LIMITED,	CALCUTTA	IS 3589	
27	JINDAL INDUSTRIES LTD.,	HISAR	IS 1239, IS 3589	
28	JINDAL SAW LTD.,	NEW DELHI.	IS 3589	
29	JOTINDRA STEEL & TUBES LTD.	FARIDABAD	IS 1239	
30	LIAONING LARGE SCALE STEEL PIPE CO.	China	IS 3589	
31	MEGHA ENGINEERING	HYDERABAD	IS 3589	
32	MKK METAL SECTIONS PVT LTD	RANIPET	IS 1239, IS 3589	
33	NAVRATAN PIPE AND PROFILE LTD.,	RAJASTHAN	IS 1239	

Prepared by
Vivekananda Yellu
Sr.Engr/QA

Reviewed by
Parameswaran.H
DGM/QA

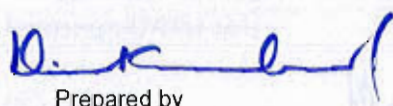
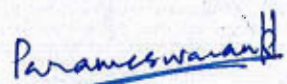
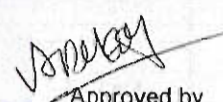
Approved by
Madhavankutty A.P.
AGM / Quality

		Bharat Heavy Electricals Limited, Piping Centre, Chennai. List of Raw material Manufacturer approved by NTPC for Piping and Tank Fabrication with Vendor material		QCP : 17 Rev : 02 Date : 29.03.2016
Sl	Vendor Name	Location	Material	Remarks
34	NEZONE TUBES LIMITED,	KOLKATTA	IS 1239	
35	P.S.STEEL TUBES LTD, UNIT II	BHILAI	IS 1239	
36	PRAKASH STEELAGE LTD	MUMBAI	SS	
37	RAVINDRA TUBES LIMITED,	HISAR	IS 1239	
38	REMI EDELSTAHL TUBULARS LIMITED,	MUMBAI	SS	
39	RIDDHI STEEL & TUBES (P) LTD	AHMEDABAD.	IS 1239	
40	ROMAN CORPORATION	Japan	SS	
41	SAWARIA PIPES PRIVATE LIMITED,	SECUNDERABAD	IS 1239	
42	SEAH STEEL CORPORTAION	South Korea	IS 3589	
43	SURYA ENGINEERS,	PUNE	IS 3589	
44	SWASTIK PIPES LIMITED,	NEW DELHI	IS 1239, IS 3589	
45	TAMILNADU STEEL TUBES LTD.	CHENNAI	IS 1239	
46	TOPWORTH PIPES & TUBES PVT.LTD.,	NAVI MUMBAI	IS 1239, IS 3589	
47	VENKATESWARA CONDUITS PVT.LTD	CHENNAI	IS 1239	
48	ZENITH BIRLA (INDIA) LIMITED	MUMBAI	IS 1239	
C) PLATES				
1	ESSAR STEEL	Hazira	CS	For Sl. 1 to 10 :- Refer Anneuxre-I :QCP:17:Rev01 dt:12/04/2011 for NTPC approval
2	JINDAL STEEL	Raigarh / Hissar	CS, SS	
3	LLOYDS STEEL	Wardha	CS	
4	STEEL AUTHORITY OF INDIA LTD	India	CS, SS	
5	DILLING-GTS VENTES	France	CS, SS	
6	INDUSTEEL FRANCE	France	CS, SS	
7	METAL ONE CORPORATION	Japan	CS, SS	
8	INDUSTEEL BELGIUM	Belgium	CS, SS	
9	THYSEN KRUPP STAHLUNION GMBH	Germany	CS, SS	
10	VOEST ALPINE GROBBLECH GmbH & CO KG	Austria	CS	
11	ACRONI.D.O.O,	Slovenia	CS, SS	For Sl. 11 to 16 :- Refer Anneuxre-III : Ref :01/CQA/gs dt : 24/02/2016 for NTPC approval
12	REINER BRACH GMBH & CO.KG	Germany	CS	
13	ILSENBURGER GROBBLECH (SALZGITTER MANNESMANN)	Germany	CS, SS	
14	NIPPON STEEL CORPORATION	Japan	CS	
 Prepared by Vivekananda Yellu Sr.Engr/QA		 Reviewed by Parameswaran.H DGM/QA		 Approved by Madhavankutty A.P. AGM / Quality

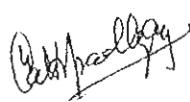
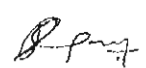


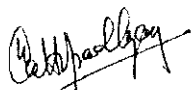
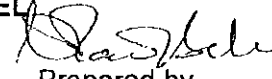
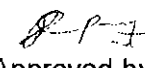
Bharat Heavy Electricals Limited, Piping Centre, Chennai.
List of Raw material Manufacturer approved by NTPC for
Piping and Tank Fabrication with Vendor material

QCP : 17
Rev : 02
Date : 29.03.2016

Sl	Vendor Name	Location	Material	Remarks
15	POSCO	Republic of Korea	CS	
16	KOLUMBUS STAINLESS STEEL (ACRINOX)	South Africa	SS	
D)	FITTINGS			For Sl. 1 to 22 :- Refer Annexure-IV : Shall be as per BHEL's Internal System (Sl.No:54)
1	DEE DEVELOPMENT ENGINEERS LTD	Faridabad	CS,SS	
2	EBY FASTENERS	Mumbai	CS,SS	
3	FLASH FORGE PVT LTD	Vizag	CS,SS	
4	S&G ENGINEERS (P) LTD	Faridabad	CS,SS	
5	SIVANANDHA PIPE FITTINGS LTD	Tamilnadu	CS,SS	
6	TUBE PRODUCTS INCORPORATE	Baroda	CS,SS	
7	UNITECH MACHINES LTD	Saharanpur	CS,SS	
8	RAY ENGG ENTERPRISES	Calcutta	IS1239	
9	INDL. PRODUCT MARKETING CORPORATION	Chennai	IS 1239	
10	P.K.TUBES & FITTINGS PVT. LTD,	Gurgoan	CS	
11	SKY FORGE PVT. LTD.	Ballabgarh	IS 1239	
12	EFTEN ENGINEERING PVT.LTD.,-	SRIPERUMBUDUR	CS	
13	FIT TECH INDUSTRIES,	THANE.	CS	
14	GUJARAT INFRAPIPES PVT. LTD.,	BARODA	CS,SS	
15	HARIHAR ALLOYS (P) LTD.	TRICHY	only SW fittings	
16	INTER TECH FITTINGS INDIA PVT LTD	THANE.	CS	
17	K. S. PIPE FITTINGS PVT.LTD	FARIDABAD.	CS	
18	NAV DURGA FORGING & FITTINGS	MUMBAI	CS	
19	PARAS ENGINEERING WORKS (MUMBAI)	VASAI	CS	
20	PRESHZINGER ENGINEERING CO	HYDERABAD	CS,SS	
21	SEAM INDUSTRIES LIMITED,	NAGPUR	CS	
22	TUBE BEND (CALCUTTA) PVT LTD	KOLKATA	CS,SS	
E)	DISHED ENDS			For Sl. 1 to 3 :- Refer Anneuxre-I:QCP:17:01 dt:12/04/2011 for NTPC approval
1	SATHYA FABRICATORS Pvt. LIMITED.	Hyderabad	CS	
2	METAL ENGINEERS.	Hyderabad	CS	
3	SOUTHERN HEAVY ENGINEERING P. LTD.	Sriperumbudur	CS	
 Prepared by Vivekananda Yellu Sr.Engr/QA  Reviewed by Parameswaran.H DGM/QA  Approved by Madhavankutty A.P. AGM / Quality				

ANNEXURE-I**Ref : QCP - 17 Rev01 dt 120411**

		Bharat Heavy Electricals Limited, Piping Centre, Chennai.	
List of Raw material Manufacturer approved by NTPC for Piping and Tank Fabrication with Vendor material		QCP : 17 Rev : 01 Date : 12.04.11	
SI	Vendor Name	Location	Material
A) PIPES (Seamless) : CS -Carbon steel ; SS-Stainless Steel			
1	BHEL / SSTP	Trichy	CS
2	ISMT LIMITED	Baramathi / Pune	CS
3	JINDAL SAW	Gujarat	CS
4	MAHARASTRA SEAMLESS LTD	Maharashtra	CS
5	REMI EDELSTAL TUBULARES LTD (upto 10")	Mumbai / Tarapur	SS
6	RATNAMANI METALS & TUBES LTD (upto 10")	Ahmedabad / Kutch	SS
7	BENTELER STAHL/ROHR GMBH & CO.KG.	Germany	CS
8	DALMINE	Italy	CS
9	DMV STAINLESS	France, Italy, Germany	SS
10	HUTA BATORY SA	Poland	CS
11	JFE,JAPAN (formerly Kawasaki Corpn.)	Japan	CS,SS
12	NIPPON STEEL	Japan	CS,SS
13	NKK CORPORATION	Japan	CS
14	PRODUCTOS TUBULARES S.A.U	Spain	CS
15	ROMAN CORPORATION	Korea	SS
16	SIDERCA S.A.I.C	Argentina	CS
17	SUMITOMO CORPORATION	Japan	CS,SS
18	TENARIS DALMINE S.P.A	Italy	CS
19	TUBACEX	Spain	SS
20	TUBOS REUNIDOS S.A.	Spain	CS
21	VALLOUREC & MANNESMANN TUBES	France,Germany	CS
22	WYMAN-GORDON FORGINGS INC.	USA	CS
B) PIPES (Welded):IS 1239,IS 3589,SA 672,API.			
1	JINDAL PIPES (ERW) UPTO 14 INCH	Ghaziabad	IS 1239,IS 3589,API
2	LALIT PIPES AND PIPES LIMITED (LS welded)	Mumbai	IS 3589,SA 672
3	MAHARASTRA SEAMLESS LTD(ERW UPTO 20 ")	Raigad,Maharashtra	IS 3589
4	MAN INDUSTRIES (INDIA) LTD. (LS & Spiral welded)	Pithampur/Gujarat	IS 3589,SA 672
5	PSL LIMITED (Spiral welded)	Vizag/Chennai/Gujarat	IS 3589
6	RATNAMANI METALS & TUBES LTD (LS & Spiral welded)	Kutch	IS 3589, SA672,API
7	STEEL AUTHORITY OF INDIA LTD	India	IS 3589,API
8	SURYA ROSHNI LTD (ERW) UP TO 16 INCH	Bahadurgarh,Haryana	IS 1239,IS 3589,API
NTPC		BHEL	
  12/04/11		 Prepared by G.Panneer Selvam, DGM/QA	
		 Approved by P.Elangovan AGM / Quality	

	Bharat Heavy Electricals Limited, Piping Centre, Chennai. List of Raw material Manufacturer approved by NTPC for Piping and Tank Fabrication with Vendor material		QCP : 17 Rev : 01 Date : 12.04.11
SI	Vendor Name	Location	Material
9	TATA STEEL LIMITED	Jamshedpur	IS 1239
10	WELSPUNE GUJARAT STAHL LS & Spiral welded)	Gujarat / Mandya	IS 3589
11	SAMSHI PIPES INDUSTRIES LTD (formerly GPT)	Vadodhara	IS 3589 (Spiral welded)
12	SURYA GLOBAL STEEL TUBE LTD (Spiral welded)	Gujarat	IS 3589
C)	PLATES		
1	ESSAR STEEL	Hazira	CS
2	JINDAL STEEL	Raigarh / Hissar	CS, SS
3	LLOYDS STEEL	Wardha	CS
4	STEEL AUTHORITY OF INDIA LTD	India	CS, SS
5	DILLING-GTS VENTES	France	CS, SS
6	INDUSTEEL FRANCE	France	CS, SS
7	METAL ONE CORPORATION	Japan	CS, SS
8	INDUSTEEL BELGIUM	Belgium	CS, SS
9	THYSSEN KRUPP STAHLUNION GMBH	Germany	CS, SS
10	VOEST ALPINE GROBBLECH GmbH &CO KG	Austria	CS
D)	FITTINGS		
1	DEE DEVELOPMENT ENGINEERS LTD	Faridabad	CS,SS
2	EBY FASTENERS	Mumbai	CS,SS
3	FLASH FORGE PVT LTD	Vizag	CS,SS
4	S&G ENGINEERS (P) LTD	Faridabad	CS,SS
5	SIVANANDHA PIPE FITTINGS LTD	Tamilnadu	CS,SS
6	TUBE PRODUCTS INCORPORATE	Baroda	CS,SS
7	UI PIPE FITTINGS PVT LTD	Hyderabad	CS,SS, IS1239
8	UNITECH MACHINES LTD	Saharanpur	CS,SS
9	RAY ENGG ENTERPRISES	Calcutta	IS1239
10	INDL. PRODUCT MARKETING CORPORATION	Chennai	IS 1239
11	P.K.TUBES & FITTINGS PVT. LTD,	Gurgoan	CS
12	SKY FORGE PVT. LTD.	Ballabgarh	IS 1239
E)	DISHED ENDS		
1	SATHYA FABRICATORS Pvt. LIMITED.	Hyderabad	CS
2	METAL ENGINEERS.	Hyderabad	CS
3	SOUTHERN HEAVY ENGINEERING P. LTD.	Sriperumbudur	CS
NTPC   12/04/11 Page 2 of 2		BHEL  Prepared by G.Panneer Selvam, DGM/QA  Approved by P.Elangovan AGM / Quality	

ANNEXURE-II**Ref : 01/CQA/gs dt 24/02/2016**

एन टी पी सी लिमिटेड
भारत सरकार का उद्यम
NTPC Limited
A Govt. of India Enterprise
(Formerly National Thermal Power Corporation Ltd.)

केन्द्रीय कार्यालय/Corporate Centre, Noida

Ref: 01/CQA/gs

DATE: 24.02.2016

Mr.A.P.Madhavan Kutty
AGM-Quality,
BHEL-Piping Center,
Chennai,

Sub: Acceptance of Raw Materials suppliers for supply of Seamless Carbon Steel Pipes for SG Packages(through PVM vendors) of Vindhyachal-V(1X500),Singareni(1X600),Mouda-II(2X660),Nabinagar(3X660), Gadawara(2X800), Unchahar(2X660), Darlipalli(2X800), Barh stage I(3X660), Telangana(2X800) Projects.

Dear Sir,

This has reference to your subject proposal requesting to approve various raw materials suppliers of Carbon Steel Pipes for the projects mentioned above. The proposal has been reviewed and accepted as under for the above mentioned projects:

	Source	Origin/Country	Material Spec
1	ARCELOR MITTAL	Romania	CS
2	HENGYANG VALIN STEEL TUBE CO.	China	CS
3	JIANGSU CHENGDE STEEL TUBE SHARE	China	CS
4	RINGMIL	Italy	Forged CS Pipes
6	VALCONVY TRUB CHOMUTOV	CZECH REP.	CS
7	BAOSHAN IRON & STEEL CO. LTD	China	CS Upto Dia 88.9mm
8	TENNARIS GLOBAL (SILCO TUBES)	Romania	CS Upto Dia 159mm
9	IBF SPA	Italy	CS
10	YANGZHOU CHENGDE STEEL PIPE CO. LTD.	China	CS

The above acceptance is subject to materials meeting NTPC Technical Specifications.

The above approval is in addition to the existing approved list vide QCP:17/01 dated 12/04/2011.

With Regards,
[Signature]

CTF Copy to: GM (QA&I)- for kind information.
I/C RIO-Trichy

ANNEXURE-III**Ref : 01/CQA/gs dt 24/02/2016****एन टी पी सी लिमिटेड**

भारत सरकार का उद्यम

NTPC Limited

A Govt. of India Enterprise

(Formerly National Thermal Power Corporation Ltd.)

केन्द्रीय कार्यालय/Corporate Centre, Noida

Ref: 01/CQA/gs

DATE: 24.02.2016

Mr.A.P.Madhavan Kutty
AGM-Quality,
BHEL-Piping Center,
Chennai.

Sub: Acceptance of Raw Materials suppliers for supply of Carbon Steel Plates for SG Packages(through PVM vendors) of Vindhyachal-V(1X500),Singareni(1X600),N.Karanpura(3X660),Nabinagar(3X660),Gadarwara(2X800),Unchahar(2X660),Darlipalli(2X800),Barh stage1(3x660),Telangana(2X800) Projects.

Dear Sir,

This has reference to your subject proposal requesting to approve various raw materials suppliers of Carbon Steel Plates for the on-going projects.The proposal has been reviewed and accepted as under for the above mentioned projects:

No	Source / address	Origin/Country	Material Spec
1	REINER BRACH GMBH & CO.KG AUF DEN DELBEN 35, 28237 BREMEN, GERMANY	Germany	CS- SA 515, BS EN 10025, A 36, IS 2062 & OTHER STRUCTURAL STEEL GRADES AS- UP TO GRADE 22
2	ACRONI.D.O.O CESTA, BORISKA, KIDRICA 44, SI- 4270 JESENICE, SLOVENIA	Slovenia	CS - SA 515, BS EN 10025, A 36, IS 2062 & OTHER STRUCTURAL STEEL GRADES AS- UP TO GRADE 91
3	ILSENBURGER GROBBLECH SALZGITTER MANNESMANN) VECKENSTEDTER WEG 10, D- 38871, ILSENBURG, GERMANY	Germany	CS- SA 515, BS EN 10025, IS 2062 & OTHER STRUCTURAL STEEL GRADES AS UP TO GRADE 91
4	NIPPON STEEL CORPORATION NAGOYA WORKS, 5-3 TOKAIMACHI, TOKAI CITY, AICHI PREFECTURE, 476-8686, JAPAN	Japan	CS- SA 515, BS EN 10025, IS 2062 & OTHER STRUCTURAL STEEL GRADES AS- UP TO GRADE 22
5	POSCO POSCO CENTER, 892 DAECHE 4- DONG, GANGNAM-GU, SEOUL, 135- 777, REPUBLIC OF KOREA	Republic of Korea	CS- SA 515, BS EN 10025, A 36, IS 2062 & OTHER STRUCTURAL STEEL GRADES AS UP TO GRADE 22
6	COLUMBUS STAINLESS STEEL (ACRINOX) MIDDLEBURG, 1050 P.B.NO; 133, SOUTH AFRICA	South Africa	SS(GRADE 304, 309, 310, 316)

The above acceptance is subject to materials meeting NTPC Technical Specifications.

The above approval is in addition to the existing approved list vide QCP:17/01 dated 12/04/2011.

With Regards,

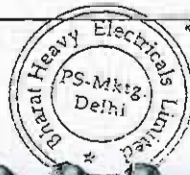
CTF Copy to: GM (QA&I)- for kind information.
I/C RIO-Trichy

ANNEXURE-IV

Ref : Northkaranpura 3X660MW

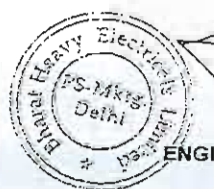
SR NO	ITEM	QP /INS- PN CAT	QP NO. 9560-102-2	QP SUB-MISSION SCHEDULE	QP APPL SCHEDULE	PROPOSED SUB SUPPLIER	PLACE	SS APPL STATUS / CAT	SS DETAIL SUB-SCHEDULE	SC APPL SCHEDULE	REMARKS
50	STRUCTURAL MADE OF ALLOY STEEL	I				BHEL	TRICHY	A			
51	FLASH TANK,CONDENSATE TANK OR AIR RECEIVING TANK FOR APH	I				SV TANKS & VESSELS	INDIA	DR			
		I				RAVI INDUSTRIES	INDIA	DR			
		I				ABROS ENTERPRISE	INDIA	DR			
		I				GRAND PRIX	INDIA	DR			
		I				ANUP ENGINEERING LTD	INDIA	DR			
52	SOOT BLOWER PRESSURE REDUCING VALVES & BLOCK VALVES	I				EMERSON	FRANCE	A			
		I				KUMEH	GERMANY	A			
		I				MIL CONTROLS	ALUVA	A			
		I				FISHER SANMAR	CHENNAI	A			
		I				SPX COPES VULCAN	USA	A			
		I				NIPPON FISHER	JAPAN	A			
		I				IL	PALAKKAD	A			
		I				CONTROL COMPONENTS INC	USA	DR			
53	FITTINGS (SPL CLASS)	I				PETROL RACCORD SPA	ITALY	A			P-91, FORMED/FORGED/ WELDED
		I				BOKYOUNG METAL CO.	LOREA	A			P-91, FORGED
		I				IF TECH CO. LTD.	KOREA	A			P-91, FORGED
		I				FLASH FORGE	VIZAG	A			P-91, FORMED/FORGED(U PTO DIA 272MM & THK 30 MM)

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SR NO	ITEM	QP /INS -PN CAT *	QP NO. 9560-102-2	QP SUB-MISSION SCHEDULE	QP APPL SCHED ULE	PROPOSED SUB SUPPLIER	PLACE	SS APPL STATUS / CAT	SS DETAIL SUB-SCHED ULE	SC APPL SCHED ULE	REMARKS
53	FITTINGS (SPL CLASS)	I				BGH EDELSTAHL SIEGEN GMBH	GERMANY	A			P-91, FORGED
		I				ERNE FITTINGS GMBH	AUSTRIA	A			P-91, FORMED
		I				GAM RACCORDI SPA	ITALY	A			P-91, FORMED
		I				TECHNO FORGE SPA	ITALY	A			P-91, FORMED
		I				MEGA SPA	ITALY	A			P-91, FORGED/WELDED
		I				BASSI LUIGI SPA	ITALY	A			P-91, FORGED/WELDED
		I				IBF SPA	ITALY	A			P-91, FORMED/FORGED/WELDED
		I				ALLIED INT SRL	ITALY	A			P-91, FORMED
		I				BRUCK STRASSE 16 ENSHEIM	GERMANY	A			P-91, FORGED/WELDED
		I				SUNGKWANG BEND CO. LTD.	KOREA	A			P-91/F-91, FORMED/FORGED/WELDED
		I				TK CORP.	KOREA	A			P-91, FORMED
		I				FORGITAL	ITALY	DR			
		I				AFFLERBACH	GERMANY	DR			
54	FITTINGS (CS, SS & AS UPTO GR 22)	II				MAIN CONTRACTOR APPD VENDORS		A			VENDORS APPROVED FOR HIGHER GRADES/RATINGS ARE ALSO APPLIED

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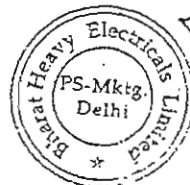
ANNEXURE-V

North Karapur

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SR NO	ITEM	QP /INS- PN CAT	QP NO. 9560-102-2	QP SUB- MISSION SCHEDU LE	QP APPL SCHED ULE	PROPOSED SUB SUPPLIER	PLACE	SS APPL STATUS / CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
3	SEAMLESS TUBES (SS)	S				SMST	ITALY	A			SS 304, 347H, SUPER 304
	SEAMLESS TUBES (SS) UPTO DIA < 76.1 MM	S				SUMITOMO METAL IND LTD	JAPAN	A			SS 304, SS 347H, SUPER 304
	SEAMLESS TUBES (SS) UPTO OD 159.0MM & WT - 12.5MM	S				HUADI STEEL GROUP	CHINA	A			SS 304, 304H, 347H (Note-5 WITH TPI)
		S				ZHEJIANG ITULI HI TECH	CHINA	A			SS 304, 304H, 347H (Note-5 WITH TPI)
4	SEAMLESS PIPES	S				TUBACEX	SPAIN	A			SS PIPES
		S			✓	SUMITOMO METALS	JAPAN	A			P-92, P-91, P-22, P-11, CS
		S			✓	Vallorcc & Mannesmann	France	A			P-92, P-91, P-22, P-11, CS
		S				HENGYANG VALIN STEEL TUBE CO	CHINA	A			CS
		S				BHEL SSTP	TRICHY	A			CS
		S				Yangzhou Chengde Steel Pipe Co Ltd	CHINA	A			CS
		S			✓	TUBOS REUNIDOS	SPAIN	A			P-91, P-22, P-11, CS
		S				VALCONVY TRUB CHOMUTOV	CZECH REP	A			CS, P11, P22
		S				ARCELOR MITTAL	ROMANIA	A			CS
		S			✓	WAYMAN GORDAN	USA	A			P-91, P-22, P-11, CS
		S			✓	TENNARIS GLOBAL (NKK TUBES)	JAPAN	A			P-91, P-22, P-11, CS
		S				IBF SPA	ITALY	A			P-92, P-91, P-22, P-11, CS
		S				JFE (KAWASAKI)	JAPAN	A			P-92, P-91, P-22, P-11, CS

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ENGINEERING DIV / QAI

Signature

APPENDIX
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APPENDIX.....

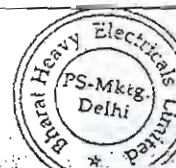
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SR NO	ITEM	QP /INS -PN CAT	QP NO. 9560-102-2	QP SUB-MISSION SCHEDULE	QP APPL SCHED ULE	PROPOSED SUB SUPPLIER	PLACE	SS APPL STATUS / CAT	SS DETAIL SUB-SCHED ULE	SC APPL SCHED ULE	REMARKS
4	SEAMLESS PIPES	\$			✓	PRODUCTUS TUBLARES	SPAIN	A			P-91, P-22, P-11, CS
		\$			✓	Vallorc & Mannesmann	Germany	A			P-92, P-91, P-22, P-11, CS
		\$			✓	TENNARIS GLOBAL (Dalmine)	Italy	A			P-91, P-22, P-11, CS
		\$				JINDAL SAW LTD	NASHIK	A*			CS, P-11, P-22, Sub to Conditions
		\$				ISMT	Ahmednagar/ Baramati	A*			CS, P-11, P-22, Sub to Conditions
		\$				Yangzhou Chengde Steel Pipe Co Ltd	CHINA	A*			P-11, P-22 (Sub to Conditions)
		\$				MSL	RAJGAD	A*			CS Sub to Conditions
		\$				REMI	BHARUCH	A*			CS, P-11, P-22, Sub to Conditions
		\$				RATNAMANI	MUMBAI	DR			CS
		\$				ZIZIANG GROSS	CHINA	DR			CS
	SEAMLESS PIPES (DIA UPTO 159 MM)	\$			✓	TENNARIS GLOBAL (SILCO TUBES)	ROMANIA	A			P-91, P-22, P-11, CS
	SEAMLESS PIPES (UPTO 160 MM)	\$			✓	BENTLER	Germany	A			P-92, P-91, P-22, P-11, CS
	SEAMLESS PIPES (UPTO 219.0 MM)	\$				JIANGSU CHENGDE STEEL TUBE SHARE	CHINA	A			CS & AS UPTO P-22 (Note-5 WITH TPI)
	SEAMLESS PIPES (UPTO 88.9 MM)	\$				BAOSHAN IRON & STEEL CO LTD	CHINA	A*			CS
	SEAMLESS PIPES (UPTO OD 914 X WT 102 MM)	\$				RINGMIL	ITALY	A			FORGED CS PIPE
5	PLATES & ROLLED SECTION (UPTO GRADE 91)	\$				INDUS STEEL BELGIUM	BELGIUM	A			CS- SA515, AS UPTO Gr-91

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