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PROJECT : 2X660MW KHR/JJA PACKAGE : Turbine Generator and Associated Packages Sub-package-HI & LT Switchgear, HT & LT busducts, lighting, cabling, earthing, DG Set, Solar				SUB- VENDOR LIST FOR ITEMS REQUIRING SUB-VENDOR / QUALITY PLAN APPROVAL			DOC NO. : THDC/RKSH/CC-9915-371 REVISION NO. 00 DATE : PAGE : 7 OF 11	
Sl. No.	ITEM	QP / INS CAT.	QP No.	Subvendor proposed by M/s BHEL	PLACE	SCAPPL STATUS	Remarks	
				Hari Consolidated Yamuna Power & Infrastructure Ltd	Delhi	A	Heat shrinkable type Upto 11 KV with conditions	
				South Electric Co	Haryana	DR		
					Bangalore	DR		
	Cable glands	III		Main contractor approved sources				
	Cable lugs	III		Main contractor approved makes with VDE or CE or UL or CSA marking on items or BIS approved makes with CML number.				
	Lighting fixtures with accessories(LED type)	I	16	M/s Wipro	Pune	A		
				M/s Surya Roshni	Noida	A		
				M/s Bajaj	Mumbai	A		
				M/s Goldwyn	Noida	A		
				M/s Philips	Noida	A		
				M/s Havells	Neemrana (Rajasthan)	DR		
				M/s Halonix	Noida	DR		
				M/s CGL	Mumbai	DR		
				M/s Pyrotech	Udaipur	DR		
				M/s Insta	Gurgaon	DR		
				L&T	Mumbai / Coimbatore/ Ahmednagar	A		
				GE	Bangalore	A		
				Siemens	Mumbai	A		
				C&S Electric	Noida / Hardwar	A		
				Schneider	Nasik	A		
				Unilec	Gurgaon	A		
				Nitya Electrocontrols	Noida	A		
	Lighting Panels	I	17					



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PROJECT : 2X660MW KHRJA PACKAGE : Turbine Generator and Associated Packages Sub-package-HIT & LT Switchgear, HT & LT busducts, lighting, cabling, earthing, DG Set, Solar CONT. NO. : THDC/RKSH/CC-9915-371	Sl. No.	ITEM	OP / INS CAT.	QP No.	Sub-vendor proposed by M/s BHEL	SUB- VENDOR LIST FOR ITEMS REQUIRING SUB-VENDOR / QUALITY PLAN APPROVAL	Remarks	DOC NO. : THDC/RKSH/CC-9915-371 REVISION NO. 00 DATE : PAGE : 8 OF 11	
						PLACE	SCAPPL STATUS		
						Switching Circuits Tricolite	Kolkata Sahibabad / Manesar	A A	
						Hindustan Control & equipment Ltd	Kolkata	A	With fabrication & painting at unit II & MP Electrical Narendrapur
						Maktel	Vadodara	A	
						Jakson	Greater Noida	A	
						Vidyut Control	Gaziabad	A	
						Adlec Power	Rohad (Jhajjar)	A	
						Pyrotech	Udaipur	A	
						Anand Power Ltd.	Noida	A	
						Positronics	Vadodara	A	
						Pyrotech	Udaipur	A	
						Control Devices	Kolkata	A	
						Jasper	Noida	A	
						Conquerent Control Systems Havells	Manesar	A	
						Novateur Electrical & distribution systems	Faridabad Murthal	A A	
						Avaid Technovator	Manesar	A	
						Control & Schematics	Hyderabad	A	
						BCH	Faridabad	A	
						Schneider	Nasik	A	
						M/s BCH	Faridabad	A	
						M/s Ajmera	Mumbai	A	
						M/s. Sakthi & Crown	Chennai	A	
						Any other make having CE / UL / CSA mark or BIS approval with valid CML number is acceptable .			
						M/s Bajaj	Pune	A	
						M/s BP Projects	Hoogly	A	
						M/s Skipper	Howrah	A	
						M/s Transrail	Silvassa	A	
						Industrial /welding receptacles & boxes			
						Lighting mast with raise & lower type lantern carriage			



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PROJECT : 2X660MW KHURJA				SUB- VENDOR LIST FOR ITEMS REQUIRING SUB-VENDOR / QUALITY PLAN APPROVAL				DOC NO. : THDC/RKSH/CC-9915-371 REVISION NO. 00 DATE : PAGE : 9 OF 11	
SL. No.	ITEM	OP / INS CAT.	OP No.	Sub-vendor proposed by M/s BHEL	PLACE	SC APPL STATUS	Remarks		
				Aviads SG Associates	Alwar	DR			
					Hoogly	DR			
	Lighting tubular pole	I	19	BIS licensee as per IS 2713 with valid CML number		A			
	Lighting poles polygonal type	I	20	M/s Bajaj	Pune	A			
				M/s B.P. Projects	Hoogly	A			
				M/s Skipper	Hoogly	A			
				M/s Transrail	Silvasa	A			
				Aviads	Alwar	DR			
				Mika Engineers	Shapur	DR			
	pvc conduit/hume pipe/lighting wire/GI pipes/HDPPE pipe/Structural Steel	III		BIS licensee / ISI marked with valid CML number A					
	GI steel rigid conduit/ epoxy conduit	II	21	BIS licensee with valid CML number		A			
	Trefoil clamps/Earthing & Lighting Protection Material/Sheet Steel/ FRP cable trench cover/drum lifting jack/Earth wire/ FRP/Aluminum Ladder/Dimmer & Passive Infrared Sensors	III					Main contractor Approved Sources		
	FAN with regulators & Exhaust Fan	III					Main contractor Approved Sources		

C/D

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PROJECT : 2X660MW KHURJA				SUB-VENDOR LIST FOR ITEMS				DOC NO. : THDC/RKSH/CC-9915-371			
PACKAGE : Turbine Generator and Associated Packages				REQUIRING SUB-VENDOR / QUALITY				REVISION NO. 00			
Sub-package-IT & LT Switchgear, HT & LT busducts, lighting, cabling, earthing, DG				PLAN APPROVAL				DATE :			
Set, Solar								PAGE : 10 OF 11			
CONT. NO. : THDC/RKSH/CC-9915-371											
Sl. No.	ITEM	QP / INS CAT.	QP No.	Sub-vendor proposed by M/s BHEL	PLACE	SC APPL STATUS	Remarks				

Fire Sealing System Type-A material supplier	III			Dow Corning	USA	A	
				GE Silicon	USA	A	
				3M India	Bangalore	A	
Fire Sealing System Type-B material supplier	II	22		M/s Lloyds	Delhi	A	
				M/s Signum	Nagpur	A	
				M/s Vijay System Engineers Pvt. Ltd.	Mumbai	A	
				M/s Multikil Fire	Vadodara	DR	
				M/s Muruguppa	Ranipet	DR	
LT Busduct(air insulated NSPBD)	I	23		M/s Unifrax	Ahmedabad	DR	
				C&S Electric	Gr. Noida/ Hardwar	A	
				Stardrive	Chennai	A	
				Unilec	Gurgaon	A	
				Spaccage Swgr	Bawal	A	
				REEP	Chennai	A	
				Enpro	Chennai	A	
				Nitya Electrocontrols	Noida	A	
				KGS Engg Ltd	Chennai	A	
				Jasper Engg Ltd	Noida	A	
				BHEL EPD	Bangalore	DR	
				Pyrotech	Udaipur	DR	
				C&S Electric	G.Noida	A	
				Henikwon	Malaysia	A	
				Jasper Engg Ltd	Noida	DR	
LT Buot (insulated sandwiched type)	I			Schneider	Baroda	DR	
				L&T	Coimbatore	DR	
				BHEL EPD	Bangalore	DR	



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PROJECT : 2X660MW KHURJA PACKAGE : Turbine Generator and Associated Packages Sub-package-HT & LT Switchgear, HT & LT busducts, lighting, cabling, earthing, DG Set, Solar				SUB- VENDOR LIST FOR ITEMS REQUIRING SUB-VENDOR/QUALITY PLAN APPROVAL		DOC NO. : THDC/RKSH/CC-9915-371 REVISION NO. 00 DATE : PAGE : 11 OF 11	
Sl. No.	ITEM	QP / INS CAT.	QP No.	Subvendor proposed by M/s BHEL	PLACE	SC APPL STATUS	Remarks
Solar EPC		I	24	Main contractor approved sources		DR	Detailed BOI list to be discussed with proneness qualified Solar EPC contractor

NB:

Under Sub Supplier approval status as per owner column:

A: mean that vendor for this item is acceptable to OWNER.

Under QP / INSPN CATEGORY column:

CAT-I : For these items the Quality Plans approved by OWNER & final acceptance will be on physical inspection & witness by OWNER

CAT-II : For these items the Quality Plans approved by OWNER. However no physical inspection shall be done by OWNER. The final acceptance by OWNER shall be on basis of verification of documents as per approved QP

CAT-III : For these items Main supplier approves the Quality Plans. The final acceptance by OWNER shall be on basis of certificate of conformance by the main supplier.

Vendors acceptance is subject to sub-QR clearance. Sub-QR criteria as per the scope/technical specification shall also be applicable for consideration as approved manufacturer/vendor. Manufacturer/Sub-vendor shall be considered for acceptance subject to &

Note-1-Approval conditions attached to above identified vendors, as applicable shall be adhered to.

Note-2- Owner Acceptable galvanizers:



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 approval for
 NTPC Engineer
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PROJECT : 2X660MW KHURJA PACKAGE : Turbine Generator and Associated Packages Sub-package- HT & LT Switchgear, HT & LT busducts, lighting, cabling, earthing, DG Set, Solar				SUB- VENDOR LIST FOR ITEM REQUIRING SUB-VENDOR / QUALITY PLAN APPROVAL		DOC NO. : THDC/RKSH/CC-9915-371 REVISION NO. 00 DATE : PAGE : 12 OF 11	
Sl. No.	ITEM	Q.P. / INS CAT.	Q.P. No.	Subvendor proposed by M/s BHEL	PLACE	SC APPL STATUS	Remarks
1.	M/s M J Engg, Delhi						
2.	DMP Projects- Howrah						
3.	M/s A.V. Engg, Kolkata						
4.	M/s Inar Profiles, Vishakapatnam						
5.	M/s Anand Udyog, Mumbai						
6.	M/s Techno Engg, Chandigarh						
7.	M/S Steelite Engg, Mumbai						
8.	M/s National Galvanizer, Kolkata						
9.	M/s Unistar Galvanizer, Kolkata						
10.	M/s B.P. Project, Kolkata						
11.	M/s Bajaj Pune						
12.	M/s Electrocure Industries, Mumbai						
13.	M/s B.G. Shirke, Pune						
14.	M/s Gurpreet Galvanizer, Hyderabad						
15.	M/s Sigma, Mumbai						
16.	M/s Radhakrishnan Shetty, Chennai						
17.	Karamtara Mumbai						
18.	Poona Galvanizers Pune						
19.	Neha Galvanizer- Howrah						
20.	Unitech Fabricators & Galvanizers- Hoogly						
21.	Patny Systems- Mehdakh						
22.	Indiana Gratings- Pune						
23.	Reliable Sponge- Kalunga						
24.	Encorp Power Trans- Palghar						
25.	Nandan Steels- Raipur						

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(Ch. A. U. Patro)
BHEL



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CH-1-K-1000



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एनटीपीसी
NTPC

PROJECT : Khurja Super Thermal Power Project (2 X 660 MW)
PACKAGE : TG and Associated Packages
Sub Package: LT Motors, Elevators
CONTRACTOR : M/S BHEL
CONT. NO. THDC/RKSH/CC-9915-371

S.No. ITEM

QP /
INS
CAT.

QP
No:-
9915-
371-
QVE.

QP
SUB.
SCH.

QP
APPL
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SUB-SUPPLIERS
PROPOSED BY
M/S BHEL

PLACE

SUB-
SUPP
LIER
APPL
STAT
US

SC
APPL
SCHED
ULE

REMARKS

clearance from
NTPC-Engg.)

GE CONVERTER TEAM

FRANCE

Note1

UPTO 11KV/18 MW (*
DOCUMENTS FOR NAME
CHANGE TO GE
CONVERTER TEAM SHALL BE
SUBMITTED FOR APPROVAL)
UPTO 11KV/13.5 MW
UPTO 11KV/17 MW
SUBJECT TO CLEARANCE OF
TRIAL ORDER UPTO 11KV/18
MW
UPTO 11KV/14 MW

HYOSUNG

KOREA

Note1

UPTO 11KV/13.5 MW

HYUNDAI

KOREA

Note1

UPTO 11KV/17 MW

SHANGHAI
ELECTRIC

SHANGHAI

Note1

SUBJECT TO CLEARANCE OF
TRIAL ORDER UPTO 11KV/18
MW

WEG

HOSUR

Note1

UPTO 11KV/14 MW

WEG

BRAZIL

Note1

SIEMENS

GERMANY

Note1

SIEMENS

MUMBAI

Note1

TMEIC

BANGALORE

Note1

NANYANG

CHINA

Note1

EXPLOSION
PROTECTION

SEC Electric
Machinery

CHINA

Note1

ABB

CHINA

Note1

ABB

FINLAND

Note1

ABB

VADODARA

Note1

CGL (PLOT 9)

MANDIDEEP

Note1

CG ELECTRIC

HUNGARY

Note1

SYSTEMS

JEUMONT

VADODARA

Note1

ELECTRIC

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S.No.

ITEM

QP /

INS

CAT.

QP

No:-

9915-

371-

QVE-

QP

SUB.

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QP

APPL

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DULE

SUB-SUPPLIERS

PROPOSED BY

M/S BHEL

PLACE

SUB- SUPPLIER

APPL

STAT

US

SC

APPL

SCHED

ULE

REMARKS

REF NO :

REVISION NO.00

DATE 29/05/2019

LIST OF ITEMS REQUIRING QP

APPROVAL &

ACCEPTABLE VENDOR AS

PROPOSED BY M/S BHEL

PROJECT : Khurja Super Thermal Power Project (2 X 660 MW)

PACAKGE : TG and Associated Packages

Sub Package: LT Motors, Elevators

CONTRACTOR : M/S BHEL

CONT. NO. THDC/RKSH/CC-9915-371

CG ELECTRIC

SYSTEMS

WEG

NANYANG

EXPLOSION

PROTECTION

NANYANG

ELECTRIC

MACHINE LTD.CO

SHANGHAI

SHANGDIAN

ELECTRIC

MACHINE LTD.CO

TD POWER

XIAN ELECTRICAL

MOTOR

SEC ELECTRIC

MACHINERY

BHARAT BIJLEE

GE

JEUMONT

ELECTRIC

BANGALORE

CHINA

CHINA

NAVIMUMBAI

USA

VADODARA

HUNGARY

BRAZIL

CHINA

CHINA

BRAZIL

BHOPAL

MANDIDEEP

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S.No. ITEM

REF NO :
REVISION NO. 00
DATE 29/05/2019

REMARKS

PROJECT : Khurja Super Thermal Power Project (2 X 660 MW)
PACKAGE : TG and Associated Packages
Sub Package: LT Motors, Elevators
CONTRACTOR : M/S BHEL
CONT. NO. THDC/RKSH/CC-9915-371

QP / INS CAT.	QP No:- 9915- 371- QVE-	QP SUB. SCH.	QP APPL SCHE DULE	SUB-SUPPLIERS PROPOSED BY M/S BHEL	PLACE	SUB- SUPP LIER APPL STAT US	SC APPL SCHED ULE
				JYOTI	VADODARA	A	6.6KV/2500KW
				SHANGHAI ELECTRIC	SHANGHAI	A	11KV/3200KW
				TECO	TAIWAN	A	11KV/3000KW
				WEG	HOSUR	DR	
				SEC Electric Machinery	China	DR	
				ABB	VADODARA	DR	
				ASIR ROBICON	ITALY	DR	
				MARATHON	KOLKATA	DR	
				NANYANG ELECTRIC	CHINA	DR	
				MACHINE LTD.CO.			
				TMEIC	BANGALORE	DR	
				TMEIC	JAPAN	DR	
5)	DC Motor	I		WINKLEMAN	GERMANY	A	
				KAWAMATA	JAPAN	A	UPTO 75 KW FOR DC MOTOR
				CGL	AHMEDNAGAR	A	
				INTEGRATED ELECTRIC COMPANY	GURUGRAM	DR	
				KEC	BANGLORE	DR	
				SIEMENS	MUMBAI	DR	
				TMEIC	JAPAN	DR	
				TMEIC	BANGALORE	DR	
				TRIDENT POWERCRAFT	BANGALORE	DR	
				ABB BLADOR	USA	DR	

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PROJECT : Khurja Super Thermal Power Project (2 X 660 MW) PACAKGE : TG and Associated Packages Sub Package: LT Motors, Elevators CONTRACTOR : M/S BHEL CONT. NO. THDC/RKSH/CC-9915-371										LIST OF ITEMS REQUIRING QP APPROVAL & ACCEPTABLE VENDOR AS PROPOSED BY M/S BHEL			REF NO : REVISION NO. 00 DATE 29/05/2019	
S.No.	ITEM	QP / INS CAT.	QP No:- 9915- 371- QVE-	QP SUB. SCH.	QP APPL SCHE DULE	SUB-SUPPLIERS PROPOSED BY M/S BHEL	PLACE	SUB- SUPP LIER APPL STAT US	SC APPL SCHED ULE	REMARKS				
6)	IPBD	I				C&S ELECTRIC C&S ELECTRIC BHEL POWER GEAR GODREJ & BOYCE EGE SIM ELECTRO	G. NOIDA HARIDWAR RUDRAPUR CHENNAI / HINDUPUR BANGALORE CZECH REPUBLIC FRANCE	A A A A DR DR DR						
7)	SPBD	I				C&S ELECTRIC C&S ELECTRIC BHEL POWER GEAR GODREJ & BOYCE KGS ENGG ELEMACH UNITECH ELECTRICAL POWERWAYS	G. NOIDA HARIDWAR RUDRAPUR BANGALORE/ CHENNAI / HINDUPUR BANGALORE CHENNAI AHMEDABAD GURUGRAM NOIDA	A A A A A A DR DR DR						
8)	Variable Frequency Drives Panels	I				L&T-YASHKAWA DANFOSS SCHNEIDER ROCKWELL ALLEN BRADLEY ABB SIEMENS	MUMBAI CHENNAI NASHIK DELHI- SHAHIBABAD BANGALORE NASHIK	A A A A A A A		WITH VFD MODULE FROM YASHKAWA JAPAN; DR for HT UPTA 690 V 1200kW ; Drive from Danfoss Denmark/USA; DR for HT UPTO 160kW ; Drive from Schneider France; DR for HT DR for HT DR for HT				

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PROJECT : Khurja Super Thermal Power Project (2 X 660 MW)
PACAKGE : TG and Associated Packages
Sub Package: LT Motors, Elevators
CONTRACTOR : M/S BHEL
CONT. NO. THDC/RKSH/CC-9915-371

LIST OF ITEMS REQUIRING QP
APPROVAL &
ACCEPTABLE VENDOR AS
PROPOSED BY M/S BHEL

REF NO :
REVISION NO. 00
DATE 29/05/2019

S.No.

ITEM

QP /
INS
CAT.

QP
No:-
9915-
371-
QVE-

QP
SUB.
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SUB-SUPPLIERS
PROPOSED BY
M/S BHEL

PLACE

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ULE

REMARKS

Integrator with Schneider make
VFD for LT Only
DR for HT
ONLY FOR LT

9) ELEVATORS

I

OTIS
KONE
TECHNO
OMEGA
ECE
SAMIL ELTEC
COOPER
ELEVATORS INDIA

MUMBAI
CHENNAI
AHMEDABAD
AHMEDABAD
GHAZIABAD
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CHENNAI

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Note 1:

Manufacturer/Sub vendor shall be considered for acceptance subject to Sub-QR/provenness approval from NTPC Engineering & Owner.

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 PROJECT : Khurja Super Thermal Power Project (2 X 660 MW) PACAKGE : TG and Associated Packages Sub Package: LT Motors, Elevators CONTRACTOR : M/S BHEL CONT. NO. THDC/RKSH/CC-9915-371										LIST OF ITEMS REQUIRING QP APPROVAL & ACCEPTABLE VENDOR AS PROPOSED BY M/S BHEL		REF NO : REVISION NO.00 DATE 29/05/2019	
S.No.	ITEM	QP / INS CAT.	QP No:- 9915- 371- QVE-	QP SUB. SCH.	QP APPL SCHE DULE	SUB-SUPPLIERS PROPOSED BY M/S BHEL	PLACE	SUB- SUPP LIER APPL STAT US	SC APPL SCH ULE	REMARKS			

Note 2: For LT Motors:**a) Less than 50 KW:**

Acceptance of Motor less than 50 KW is based on COC of the manufacturer & the contractor confirming as follows:

It is hereby confirmed that the above mentioned motor /motors was/ were manufactured taking care of NTPC specific requirements regarding ambient temp., voltage & frequency variation, hot starts, pull out torque, starting KVA/KW, temp. rise, distance between centre of stud & gland plate and tested in accordance with approved drawing /data sheets.

b) 50 KW -75KW:

Acceptance of Motor rating between 50 KW & 75 KW is based on NTPC review of Routine Test inspection report as per IS 325 witnessed by main contractor along with COC of the manufacturer & the contractor confirming as follows:

It is hereby confirmed that the above mentioned motor /motors was/ were manufactured taking care of NTPC specific requirements regarding ambient temp., voltage & frequency variation, hot starts, pull out torque, starting KVA/KW, temp. rise, distance between centre of stud & gland plate, space heater and tested in accordance with approved drawing /data sheets.

b) Above 75 KW: As per NTPC approved quality plan

Note 3: Approval condition attached to aforesaid approved vendors shall be adhered to and the said conditions shall be shared by NTPC on specific request.

Note 4: Abbreviations:

A -- For these items proposed vendor is acceptable to NTPC. To be indicated with letter "A" in the list alongwith the condition of approval, if any.
DR -- For these items "Detailed required" for NTPC review. To be identified with letter "DR" in the list.

QP/INSPN CATEGORY:

CAT-I: For these items the Quality Plans are approved by NTPC and the final acceptance will be on physical inspection witness by NTPC.

CAT-II: For these items the Quality Plans approved by NTPC. However no physical inspection shall be done by NTPC. The final acceptance by NTPC shall be on the basis review of documents as per approved QP.

CAT-III: For these items Main Supplier approves the Quality Plans. The final acceptance by NTPC shall be on the basis certificate of conformance by the main supplier.



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Project : Khurja Super Thermal Power Project (2x660 MW)		Annexure - I				LIST OF ITEMS REQUIRING QUALITY PLAN		Doc No	
Package : Turbine Generator and Associated Packages - CH		AND SUB-SUPPLIER APPROVAL				REV NO : 0		DATE : 27.06.2019	
Transformer, Cables						PAGE			
Supplier : M/s BHEL									
Contract No: THDC/RSH/CC-9915-371									
S.N.	Item Description	Qty/ Insp. Cat	QIP #	QIP Approval Schedule	Proposed sub-supplier	Place	Sub-supplier approval status/ schedule	Sub-supplier Details submission schedule	Remark
For all the items mentioned below, which are covered under Sub-QR in Specifications under Provenness Criteria, Sub-QR Clearance shall be obtained from Owner/Owner Consultant. Owner's Technical Specification requirements for all the below mentioned items shall be adhered to.									
1	Generator Transformers / Station Transformer (upto 400 KV Class) (1 Level Vendor (Refer Note 5))	1	Q-110		GE T&D	ALHABAD	Note-1	up to 400 KV Class	
					ABB	VADODARA	Note-1	up to 765 KV Class	
					SIEMENS	NAVI MUMBAI	Note-1	up to 400 KV Class	
					CG Power & Industrial Solutions	KANUR MARG	Note-1	up to 400 KV Class	
					BHEL	BHOPAL	Note-1	up to 400 KV Class	
					EMCO	THANE	Note-1	up to 400 KV Class	
					IELK	ANGAMALY (KERALA)	Note-1	up to 400 KV Class	
					TOSHIBA	HYDERABAD	Note-1	up to 400 KV Class	
					GE T&D	VADODARA	Note-1	up to 765 KV Class with approval conditions apply	
					CG Power & Industrial Solutions	Mandideep	Note-1	up to 765 KV Class	
					BHEL	Itarsi	Note-1	up to 400 KV Class	
					GE T&D	ALHABAD	Note-1	up to 765 KV Class	
					GE T&D	VADODARA	Note-1	up to 765 KV Class with approval conditions apply	
					ABB	VADODARA	Note-1	up to 765 KV Class	
					BHEL	BHOPAL	Note-1	up to 400 KV Class	
					SIEMENS	NAVI MUMBAI	Note-1	up to 400 KV Class	
					CG Power & Industrial Solutions	KANUR MARG	Note-1	up to 400 KV Class	
					CG Power & Industrial Solutions	Mandideep	Note-1	up to 765 KV Class	
					ABB Ltd.	Vadodara	A		
					CG Power & Industrial Solutions	Kanpur	A		
					GE T&D	Naini	A		
					BHEL	BHOPAL	A		
					GE T&D	Vadodara	A		
					CG Power & Industrial Solutions	Mandideep	A		
2	BUS (SHUNT) REACTOR (1 Level Vendor (Refer Note 5)) (400 KV Class)	1	Q-110						
3	Line Reactor 80 MVA, 400 KV Class (1 Level Vendor (Refer Note 5))	1	Q-120						

Approved by
28/06/19 Aman Pandey
NTPC

CH A.C. Bhatnagar
BHEL



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Project : Khurja Super Thermal Power Project (2x660 MW)		Annexure - I				Doc No				
Package : Turbine Generator and Associated Packages - Cyl Filled Transformers (GT, Reactor, ST, UT), Dry Type Transformer, Cables		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL				REV NO: 0				
Supplier : M/s BHEL						DATE : 27.06.2019				
Contract No. THDC/RSH/CC-9915-371						PAGE				
S.N.	Item Description	QIP Insp. Cat	QIP #	QIP Sub Schedul e	QIP Appros al Schedul e	Proposes sub-supplier	Place	Sub-supplier approval status/ cal	Sub-supplier Details submission schedule	Remark
4	UNIT TRANSFORMERS (L1 Level Vendor (Refer Note 5))	1	Q-130							
						ENCO	THANE	Note-1		up to 400 KV Class
						BHEL	BHOPAL	Note-1		up to 400 KV Class
						BHEL	THANE	Note-1		up to 220 KV Class
						ICSIHRA	HYDERABAD	Note-1		up to 7.5 MVA, 33 KV Class
						CG Power & Industrial Solutions	Malanpur	Note-1		up to 1.0 MVA, 11 KV Class
						ECE	Sonepat	Note-1		up to 1.0 MVA, 11 KV Class
						Andrew Yule	Chennai	Note-1		up to 10.0 MVA, 33 KV Class
						ENCO	Jalgaon	Note-1		Up to 16 MVA, 33 KV Class
						Esstar	Medak	Note-1		Up to 16 MVA, 60 KV Class
						Indanesh Transformers	Chennai	Note-1		Up to 16 MVA, 11 KV Class
						Sankar	Meerut	Note-1		Up to 16 MVA, 33 KV Class
						Kiribkar	Mysore	Note-1		up to 16 MVA, 33 KV Class
						Kiribkar	Pune	Note-1		up to 2.0 MVA, 33 KV Class
						KEYS Power Components Ltd	Silvassa	Note-1		Up to 2.5 MVA, 33KV Class
						Hammond Power Solutions	Hyderabad	Note-1		up to 10.0 MVA, 33 KV Class
						Schneider	Vadodara	Note-1		Up to 50MVA, 132 KV Class
						T & R	Ahmedabad	Note-1		Up to 90 MVA, 132 KV Class
						Technical Associate Ltd	Suratgarh	Note-1		up to 16 MVA, 33 KV Class with approval conditions apply
						Tesla Unit-2	25-A, B Sector Industrial Area, Gurgaon, Haryana	Note-1		up to 5.0 MVA, 33 KV Class
						Vollamp	Savli, Vadodara	Note-1		up to 3.5 MVA, 33 KV Class
						Sudhir Transformers Ltd.	Bangalore	Note-1		up to 12.5 MVA, 33 KV Class
						Sudhir Power Limited	Silvassa	Note-1		up to 12.5 MVA, 33 KV Class
						CG Power & Industrial Solutions	Mumbai	Note-1		up to 7.65 KV Class

61/10/19/2019



Project : Khurja Super Thermal Power Project (2x660 MW)

Package : Turbine Generator and Associated Packages - Oil Filled Transformers (GT, Reactor, ST, UT), Dry Type Transformer, Cables

Supplier : M/s BHEL

Contract No: THDC/RSHT/CC-9945-371

Annexure - I

Doc No

REV. NO. : 0

DATE : 27.06.2019

PAGE :

S.N.	Item Description	QTY Insp. Cat	QTY #	QTY Sub. Sched. #	QTY Appr. Sched. #	Proposed sub-supplier	Place	Sub-supplier approval status/ cat	Sub-supplier Details submission schedule	Remark
5	1X Auxiliary Distribution Transformer-Dry Type (2.5 MVA, 11/0.133 KV) (1 Level Vendor (Refer Note 5))	I	Q-140			ICSHIRA Kishorkar KAYCEM RFG BHEL VOLTAMP	HYDERABAD PUNE PUNE BHANSI SAVLI	A A A A A		Upto 2 MVA, 33KV Class up to 2.0 MVA, 33KV Class Upto 3.5 MVA, 33KV Class Upto 6.3 MVA, 33KV Class Upto 3.25 MVA, 33KV Class
6	NEUTRAL GROUNDING RESISTOR	III				ABB Hammond Power Solutions Sudhar Power Limited RSI SWITCHGEAR PVT. LTD. SUNARHEE LACHMAN ELECTRONICS RESISTOR ELECTRICALS AMP/CONTROL EQUIPMENTS RSI SWITCHGEAR PVT. LTD. National Resistors	HYDERABAD SILVASSA KOLKATA PUNE NEW DELHI KOLKATA PUNE Bhavadi Pune	A A A A A A A A A		Upto 8 MVA, 24KV Class
7	NEUTRAL GROUNDING TRANSFORMER	II	Q-150			VOLTAMP TRANSFORMERS PRAYOG PRAGATI Hammond Power Solutions TESLA, Unit-2	SAVLI/Maharajpura PUNE MUMBAI HYDERABAD 25/A, B-Sector, Industrial Area, Govindpura, Bhopal	A A A A A		
8	NEUTRAL GROUNDING REACTOR	I	Q-160			Qualin Power BHEL	Sangli Bhopal	A A		
9	CMS	I	Q-170			DYNAMIC RATINGS A-schode (EMH ENERGIE) GE Grid GmbH BHEL	USA GERMANY GERMANY Bhopal	A A A A		Approval Conditions Apply
10	Enclosure for CMS System	III				SIMENS Rittal Pyrotech BHEL M44 of System	NAVJ MUNIMAM Bangalore Udaipur Bhopal Vadodara	A A A A A		Approval Conditions Apply

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23/10/22
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Project : Khurja Super Thermal Power Project (2x660 MW)		Annexure -1						Doc No.	
Package : Turbine Generator and Associated Packages - Oil Filled Transformers (GT, Reactor, ST, UT), Dry Type Transformer, Cables		LIST OF ITEMS REQUIRING QUALITY PLAN						REV NO. : 0	
Supplier : M/s BHEL		AND SUB-SUPPLIER APPROVAL						DATE : 27.06.2019	
Contract No. : THDC/RISHU/CC-991/5371								PAGE	
S.N.	Item Description	Q# Insp. Cat	Q# Sub Sched	Q# Approval Sched	Proposed sub-supplier	Place	Sub-supplier status / cat	Sub-supplier Details submission schedule	Remark
11	SURGE ARRESTOR (400 KV Class)	1	Q-180		Ohm	Hyderabad	A		
					CGI	Kashik	A		
					Lanco	Hyderabad	A		
					Xam AD Arrestors Co Ltd	Chota	A		
					Siemens	Germany	DR		
					Hipro International	Pune	DR		
					ABB Kabel	Germany	A		Only for Power Cable
					Advance Cable	Bengaluru	A		
					Anhui Huailong	China	A		
					Apar Industries Ltd	Umbargaoan	A		
					Crests Cables	Bhivadi	A		
					CMI	Fardabad	A		Only for Control Cable
					CMI	Badi	A		
					Defcon Cable Ltd	Fardabad	A		
					Dynamic Cables	Jaipur	A		Conditional Approval Only for power cable
					Elkas Testlink	Fardabad	A		Only for Control Cable
					Emiles	Pune	A		
					Gemsals Industries	Bhivadi	A		
					Goonline Fibres (I) Ltd	Daman	A		
					Gupta Power Cables	Khurda	A		
					Havelis India Ltd.	Alwar	A		
					Hindustan Vidant Products Ltd	Fardabad	A		
					Isacab	Pune	A		
					Indo Alloys Industries Ltd.	Bhivadi	A		
					KFC International	Silvassa	A		
					KEI Industries	Bhivadi	A		
					LS Cable	Korea	A		
					NCCO	Shamaghar, Kolkata	A		
					Paramount Cable	Khushkhara	A		
					Polycab Wires Pvt. Ltd	Daman	A		
					Radiant Cable	Hyderabad	A		
					Ravin Cables	Pune	A		
					R.R. Kabel	Silvassa	A		
					Steel Cables	Bangalore	A		
					Scot Innovation wires and cables	Badi	A		
					Special Cables	Rudrapur	A		
					Steep Industries	Shubhapur	A		

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Project : Khurja Super Thermal Power Project (2x660 MW)		Annexure - I				Doc No			
Package : Turbine Generator and Associated Packages - CM		LIST OF ITEMS REQUIRING QUALITY PLAN				REV NO : 0			
Filled Transformers (GT, Reactor, ST, UT), Dry Type Transformer, Cables		AND SUB-SUPPLIER APPROVAL				DATE : 27.06.2019			
Supplier : M/s BHEL						PAGE			
Contract No: THDC/RSH/CC-0915-371									
S.N.	Item Description	Q# Insp. Cat	Q# Sub. Schedul e	Q# Approval Schedul e	Proposed sub-supplier	Place	Sub-supplier approval status / cat	Sub-supplier details submission schedule	Remark
					Savoy Cables	Vadodra	A		
					Lohan Electric Wire	Korea	A		
					Two Shandang	China	A		
					Thermocables	Hyderabad	A		
					Trumpet Plastics	Jaipur	A		
					Toront Cable Ltd	Nadiad	A		
					Universal Cable Ltd	Sana	A		
					Sachem	Puducherry	DR		
					Relison Cable	Bhuvadi	DR		
					Covoline Fibres (b) Ltd	Silvassa	DR		
					BAVILLS	BANGALORE	DR		
					REC INTERNATIONAL (RIG)	Mysore	DR		
					Paramount communications Ltd	New Delhi	DR		
					WOLYACAB	Hydli	DR		
					Toront Cable Ltd	Bangalore	DR		
					Sri Ram Cables Pvt. Ltd.	Delhi	DR		
					PRESTIGE CABLE INDUSTRIES	DELHI	DR		
					Laser power and infra pvt ltd	Kolkata	DR		
					MANSELD CABLE CO.	Noida	DR		
					Impress Instruments	Udaipur	DR		
					SPM Power & Telecom Pvt Ltd	Hyderabad	DR		
					Sercol India Pvt Ltd	Nehran	DR		
					Incom Cables	Balandkhar	DR		
					SAM Cables & Conductions Pvt Ltd	Rudrapur	DR		
					Conduct Cable Industries	Gharab	DR		
					Myar	Noida	DR		
					CCI	Noida	DR		

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28/06/19



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Project : Khurja Super Thermal Power Project (2660 MW)		Annexure - I				Doc No				
Package : Turbine Generator and Associated Packages - Oil Filled Transformers (GT, Reactor, ST, UT), Dry Type Transformer, Cables		LIST OF ITEMS REQUIRING QUALITY PLAN				REV NO : 0				
Supplier : M/s BHEL		AND SUB-SUPPLIER APPROVAL				DATE : 27.06.2019				
Contract No: THDC/RSR/CC-9915371						PAGE				
S.N.	Item Description	QTY/Imp Cat	Q#	Q# Sub Sched	Q# Sched	Proposed sub-supplier	Place	Sub-supplier approval status/ cat	Sub-supplier Details submission schedule	Remark
NOTE: Note-1: Manufacturer/Sub-Vendor's acceptance shall be subjected to Sub-QE/Procure approval from NTPC - Engineering & Owner. Note-2: SYSTEM SUPPLIERS/SUB-SUPPLIERS APPROVAL STATUS CATEGORY SHALL BE FILLED BY NTPC A-1 for this item proposed vendor is acceptable to NTPC. To be indicated with letter 'A' in the list along with condition of approval, if any. DR-For these items 'Detailed required for NTPC review. To be identified with letter 'DR' in the list. Note-3: QP/INSPN CATEGORY CAT-I-4 for these items the Quality Plans approved by NTPC & final acceptance will be on physical inspection witness by NTPC. CAT-II-For these items the Quality Plans approved by NTPC. However no physical inspection shall be done by NTPC. The final acceptance by NTPC shall be on basis of documents as per approved QP. CAT-III-For these items Main supplier approves the Quality Plans. The final acceptance by NTPC shall be on basis of certificate of conformance by the main supplier. Control measure of item covered in quality plan of main item. Note-4: UNITS/WORKS: Place of manufacturing/ Place of Main Supplier of multi units/ works. Note-5: Comprehensive L-2 List of sub-vendors shall be finalized with the finally selected Sub-Supplier. Note-6: Category of inspection for L1 Cables: For Total Contract Quantity per Size For cable total quantity > 25 KM For cable total quantity above 2.5 km & up to < 10 km per size/type For cable total quantity above 20 km per size/type										
Category Of Inspection Cat-III - submission of TC & Certificate of Conformance by Main Contractor for the manufacturing having successfully supplied to any NTPC project site through Corporate contracts for atleast 2 years Cat-II - For the manufacturing having successfully supplied to any NTPC project site through Corporate contracts for atleast 2 years Cat-I										

6/19/2019



PROJECT: Khurja STPP-I (2X660 MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL				OWNER DOC NO
PACKAGE: STG ISLAND		SUB SYSTEM: CIVIL WORKS				REV. NO
MAIN SUPPLIER: BHEL						DATE
CONTRACT NO.:						26.04.2019
SR. NO.	ITEM	QAP / INSP. CAT	QA P NO.	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY
1	COLOUR COATED METAL DECK & CLADDING SHEET (COIL)	III		TATA STEEL BSL LIMITED	RAIGAD	Formerly BHUSHAN STEEL AND STRIPS LTD
				ESSAR STEEL LTD	PUNE	A
				NATIONAL STEEL & AGRO INDUSTRIES LTD	DHAR	A
				JSW STEEL COATED PRODUCTS LTD	KALIMESHWAR (NAGPUR)	Formerly JSW ISPAT Steel Ltd
				BHUSHAN STEEL LTD.	SAHIBABAD	A
				JSW LTD	THANE	A
				BHUSHAN POWER & STEEL LTD	SAMBALPUR (ODISHA)	A
				TATA BLUESCOPE STEEL LTD	JAMSHEDPUR	A
2	FIRE PROOF DOORS	III	-	MAIN CONTRACTOR APPROVED SOURCES WITH VALID PROTOTYPE TEST REPORT FROM CBRIC/PRIGOV. LAB.)	-	-
3	ELECTROFORGED GRATING	III	-	MAIN CONTRACTOR APPROVED SOURCE	-	-
4	HIGH PERFORMANCE MOISTURE COMPATIBLE CORROSION RESISTANT COATING SYSTEM	III	-	CECRI LICENSED SOURCES	-	-
5	CEMENT	III	-	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-
6	CONSTRUCTION CHEMICALS, WATER PROOFING COMPOUNDS AND GROUTS	III	-	MAIN CONTRACTOR APPROVED SOURCE	-	-
7	PAINT AND PAINTING SYSTEM	III	-	MAIN CONTRACTOR APPROVED SOURCE	-	-
8	PROFILERS FOR COLOUR	III	-	MAIN CONTRACTOR APPROVED	-	-

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Request
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(BHEL PSNR)

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(BHEL PSNR)

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30/04/19
(BHEL PSNR)

SR. NO.	ITEM	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB- SUPPLIER APPROVAL					OWNER DOC NO	DATE	REMARKS
		SUB SYSTEM: CIVIL WORKS					REV. NO.		
		QAP / INSP. CAT	QA P NO.	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY			
	COATED METAL DECK & CLADDING SHEETS			SOURCE					
9.	CI PIPES	III	-	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
10.	MS BLACK/GI PIPES (IS:3589, IS:1239)	III	-	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
11.	RCC PIPES	III	-	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
12.	CPVC/UPVC PIPES	III	-	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
13.	PVC WATER STOP	III	-	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
14.	POLYTHENE WATER STORAGE TANKS	III	-	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
15.	BITUMEN	III	-	ALL GOVERNMENT REFINARIES	-	-			
16.	PTFE BEARING / ELASTOMERIC BEARING	III	-	ALL CURRENT MORTH / RDSO APPROVED VENDORS	-	-			
17.	HIGH SOLID CONTENT LIQUID APPLIED URETHANE BASED ELASTOMERIC MEMBRANE FOR WATER PROOFING	III	-	MAIN CONTRACTOR APPROVED SOURCE	-	-			
18.	CERAMIC / VITRIFIED TILES	III	-	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
19.	PARTICLE BOARDS, PLYWOOD, MDF	III	-	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
20.	PRE ENGINEERED BUILDINGS	III	-	MAIN CONTRACTOR APPROVED SOURCE	-	-			
21.	FOUNDATION BOLT	III	-	MAIN CONTRACTOR APPROVED SOURCE	-	-			

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Approved
(30-04-2019)
(NTPC Ltd.)

Approved
20/01/2019
C.BHELPSNP

Shri/30/04/19
(BHEL PSNP)



PROJECT: Khurja STPP-I (2X660 MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL					
PACKAGE: STG ISLAND		OWNER DOC NO		REV. NO			
MAIN SUPPLIER: BHEL		SUB SYSTEM: CIVIL WORKS		DATE			
CONTRACT NO.		DATE		25.04.2019			
Sr. No.	ITEM	QAP / INSP. CAT	QA P. NO.	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS
LEGENDS							
1. SYSTEM SUPPLIER/SUB-SUPPLIER APPROVAL STATUS CATEGORY (SHALL BE FILLED BY OWNER)							
A - For these items proposed vendor is acceptable to OWNER. To be indicated with letter 'A' in the list along with the condition of approval, if any							
DR - For these items 'Details required' for OWNER review. To be identified with letter 'DR' in the list							
2. QP/INSPN CATEGORY:							
CAT-I: For these items the Quality Plans are approved by OWNER and the final acceptance will be on physical inspection witness by OWNER							
CAT-II: For these items the Quality Plans approved by OWNER. However no physical inspection shall be done by OWNER. The final acceptance by OWNER shall be on the basis review of documents as per approved quality plan.							
CAT-III: For these items the Quality control to be exercised as per Main Contractor Quality Assurance System. The final acceptance by OWNER shall be on the basis of Certificate of conformance (COC) by Main Contractor.							
UNITS/WORKS: Place of manufacturing Place of Main Supplier of multi units/works							
NOTE 1: For the items placed in CAT-III for Civil Works, the review and final acceptance shall be done by OWNER-EIC/ FQA on the basis of MTC / certificate of conformance in line with Technical Specifications/FQP.							

REVIEWED: 30/04/19
(BHEL PSNR)

APPROVED: 30/04/19
(BHEL PSNR)

APPROVED: 30-04-2019
(NTPC Ltd.)



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SUB VENDOR LIST FOR TG VALVES (TRICHY) PROJECT: KILURJA (2X660MW) PACKAGE: STG						
Sno	Item Description	QP CAT	Proposed Sub Supplier	Place	Approval status / Cat	Remarks
1	HP BY PASS SYSTEM (SUB-QR ITEM)	I	BHEL	Trichy	NOTE-1	NOTE-1: Manufacturer/Sub vendor shall be considered for acceptance subject to Sub-QR/provenness approval from NTPC Engineering & Owner.
		I	CCI	Sweden / Switzerland		
		I	Sempell AG	Germany		
		I	Hera	Germany		
		I	Welland & Tuxhorn	Germany		
2	ELECTRICAL ACTUATORS	I	Bopp & Reuther	Germany		Refer C&I List enclosed to the LOA/NOA
		II	Auma	Germany		
		III	Limitique	USA		
		III	Rotork	UK		
		II	Auma	Bangalore		
		II	Limitique	Faridabad		
		II	Rotork	Chennai/Bangalore		
3	CONVENTIONAL VALVES GATE GLOBE & NRV - ALL CLASS RATINGS	I	BHEL	Trichy		TOA valves are offered thro M/S Meiwa
		I	Meiwa (TOA)	Japan		
		I	Velan	Canada		
		I	Kokusai (OKANO)	Japan		
		I	Babcock power Espana	Spain		
		I	Flow serve (Edward Valve)	USA		Edward Valves are offered thro M/S Flowserve
		I	CRIS	France		
		I	IVCO (Ramundi, Dewrance)	Chennai		(Ramundi & Dewrance are now with M/S Tyco) AS PER NTPC APPROVED RATING & SIZE
		I	Xomax Sammar	Chennai		
		I	L&T (Audco)	Viralmalai		
		I	Leader Valves	Chennai, Coimbatore		
		I	Fourss	Jalandar		
		I	Niton Valve	Aurangabad		AS PER NTPC APPROVED RATING & SIZE
		I		Mumbai, Aurangabad		
4	CRH-7.8.9 - DEAERATOR PEGGING VALVES	I	BHEL	Trichy		AS PER NTPC APPROVED RATING & SIZE
		I	Babcock power Espana	Spain		
		I	Petrol Valve	Italy		
		I	L&T (Audco)	Chennai		
		I	Leader	Jalandar		
		I	Niton Valve	Mumbai		AS PER NTPC APPROVED RATING & SIZE
		I	BHEL	Trichy		
5	Extraction QGNRV's & CRHNRV's	I	BHEL	Trichy	DR	
6	Angle Valves / Angle Drain Valves	I	BHEL	Trichy	DR	
7	Spring Loaded By-Pass Valves	I	BHEL	Trichy	DR	

(Ch. J. G. Patil)
BHEL



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LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-CONTRACTORS APPROVAL										STG
POWER PROJECT STAGE (2X660 MW)										PACKAGE:
CONTRACTOR NO.:	BHEL									SUB-PKG.:
CONTRACT NO.:										REV. NO. 00
ITEM	QP_CAT	QP_NO	QP_SCH	PROPOSED SUB_SUPPLIER	PLACE					DATE: 20.04.19
SL NO.										APPR. STAT US/ CAT
1	CONDENSATE POLISHING UNIT -L2 LEVEL VENDOR (SUB QR-3K)-(REFER NOTE 3 & 4)			BGR ENERGY SYSTEMS LIMITED.,	SULURPET TALUK NELLORE DISTRICT. ANDHRA PRADESH					REMARK
				DRIPLEX WATER ENGINEERING	HARIDWAR-UTTRAKHAND					DR
				THERMAX LTD.	AGA ROAD, CHINCHWAD -PUNE- MAHARASHITRA					DR
				ION EXCHANGE (INDIA) LTD	MAHALAXMI, MUMBAI MAHARASHITRA					DR

Note:

1. A-For these items proposed vendor is acceptable to OWNER. To be indicated with letter "A" in the list along with the condition of approval, if any.
 2. DR - For these items "Detailed required" for owner review. To be identified with letter "DR" in the list. For "DR" vendors inspection category will be decided during vendor evaluation.
 3. For SUB QR items, sub QR clearance from owner will be required
 4. Comprehensive L-3 list of sub-vendors shall be finalized with the finally selected L-2 vendors but prior to order finalization on L-2 vendor by the bidder.
- INSPECTION CATEGORY :
- CAT-I : For these items the Quality Plans are approved by OWNER and the final acceptance will be after physical inspection witness by OWNER
- CAT-II : For these items the Quality Plans approved by OWNER. However no physical inspection shall be done by OWNER.
- The final acceptance by OWNER shall be on the basis review of documents.
- CAT-III : For these items Quality control to be exercised as per Main Contractor Quality assurance system. The final acceptance by owner shall be on the basis of certificate of conformance

Dr. (Satys Narayan)

QA&I CONSULTANT



BHEL

20/4/19

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PROJECT:		KIRURJA SUPER THERMAL POWER PROJECT - STAGE-I		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-CO-APPROVAL		PACKAGES:		TG	
CONTRACTOR NO.:		BHEL-PEM				SUB-PKG.:		DMCW & HVAC	
CONTRACT NO.:						REV. NO.		00	
SL. NO.	ITEM	QF. CAT	QF. NO	QF. SCH	PROPOSED SUB-SUPPLIER	PLACE	DATE:	APPR. STAT US/CAT	REMARK
1	MISC. PUMPS(HORIZ. CENTRIFUGAL) TYPE-I (FLOW-300 CMH & Motor rating up to 300 kw) DMCW SYSTEM	1			FLOWMORE LTD	MOHAN NAGAR, -GHAZIABAD-UTTAR PRADESH		A	
		1			BIHARAT PUMPS & COMPRESSORS LTD	Nam, -ALLAHABAD-UTTAR PRADESH		DR	
		1			VARAT PUMP AND MACHINERY PVT LTD	Amra Road, -Howrah-WEST BENGAL		DR	
		1			MAXIFLOW PUMPS INDIA PVT LTD	INT II Sector 7, -Gurgaon-HARYANA		DR	
		1			WPL LIMITED	Ghaziabad-UTTAR PRADESH		A	
		1			SINTECH PRECISION PRODUCT LTD	Ghaziabad-UTTAR PRADESH		A	HORIZONTAL UP TO 500 KW MOTOR RATING
		1			KIRLOSKAR BROTHERS LTD	KIRLOSKARWADI DISTT SANGLI MAHARASHTRA 416508		A	
		1			WILCO MATHUR & PLATTI PUMPS PVT LTD	PUNE MAHARASHTRA		A	
		1			V-Flo Pumps & Systems Co Ltd.	Ha Tai New Town, -Shenyang City-Beijing China		DR	
2	MISC. PUMPS(HORIZ. CENTRIFUGAL) TYPE-II (FLOW-300 CMH & Motor rating up to 300 kw) DMCW SYSTEM	1			WPL LIMITED	PANIHATI, SODEPUR, -KOLKATA-WEST BENGAL		A	
		1			SINTECH PRECISION PRODUCT LTD	Ghaziabad-UTTAR PRADESH		A	HORIZONTAL UP TO 500 KW MOTOR RATING
		1			MAXIFLOW PUMPS INDIA PVT LTD	INT II Sector 7, -Gurgaon-HARYANA		DR	
		1			BIHARAT PUMPS & COMPRESSORS LTD	Nam, -ALLAHABAD-UTTAR PRADESH		DR	
		1			V-Flo Pumps & Systems Co Ltd.	Ha Tai New Town, -Shenyang City-Beijing China		DR	
		1			VARAT PUMP AND MACHINERY PVT LTD	Amra Road, -Howrah-WEST BENGAL		DR	
		1			FLOWMORE LTD	MOHAN NAGAR, -GHAZIABAD-UTTAR PRADESH		A	
		1			STERLING AND WILSON PRIVATE LIMITED	SALT LAKE, KOLKATA		DR	
		1			INDUSTRIAL PROJECT & PRODUCTS CO	Bawal -Rewari-HARYANA		DR	
		1			ADVANCE VENTILATION PVT LTD	Near Subhash Place, Patampur, New Delhi		DR	
		1			VOI-TAS LTD	JN HEREDIA MARG, BALLARDESTATE, MUMBAI		DR	
3	AIR CONDITIONING SYSTEM(SUB-QR-3K)	1			ROOTS COOLING SYSTEMS PVT LTD	Phase-2, -NOIDA-UTTAR PRADESH		DR	

29/04/19

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PROJECT:		KILURJA SUPPLY POWER PROJECT - STAGE-I		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCON APPROVAL		PACKAGES:		TC	
CONTRACTOR NO:		BHEL-PEM				SUB-PKG:		BMCV & HVAC	
CONTRACT NO:						REV. NO.		00	
SL NO.	ITEM	Q.P. CAT	Q.P. NO	Q.P. SCH	PROPOSED SUB-SUPPLIER	PLACE	DATE:	APPR. STAT	REMARK
4	VENTILATION SYSTEM (SUB QR-3K)	1			TAP ENGINEERING	KANCHEEPURAM - CHENNAI-TAMILNADU	DR		
		1			Pack Plast Industries	Kottarajashian	DR		
		1			INDUSTRIAL PROJECT & PRODUCTS CO	Rewari-HARYANA-Bawal	DR		
		1			VOLETA LTD	THANE WEST-Mumbai-MAHARASHTRA	DR		
		1			ROOMS COOLING SYSTEMS PVT LTD	Phase-2 -Noida-UTTAR PRADESH	DR		
		1			ADVANCE VENTILATION PVT LTD	DELHI	DR		
		1			S.R. SYSTEMS PRIVATE LTD	KUNDLI-SONIPAT-HARYANA DELHI	DR		
		1			STURLING AND WILSON PRIVATE LIMITED	SALT LAKE, KOLKATA	DR		
		1			C DOCTOR and CO PVT LTD	KOLKATA WEST BENGAL	DR		

Note

1. A-For these items proposed vendor is acceptable to OWNER To be indicated with letter "A" in the list along with the condition of approval, if any
2. DR - For these items "Detailed required" for owner review. To be identified with letter "DR" in the list. For "DR" vendors inspection category will be decided during vendor evaluation
3. For SUB OR items, sub QR clearance from owner will be required
4. Comprehensive L-3 list of sub-vendors shall be finalized with the finally selected L-2 vendors but prior to order finalization on L-2 vendor by the bidder

INSPECTION CATEGORY

CAT-I For these items the Quality Plans are approved by OWNER and the final acceptance will be after physical inspection witness by OWNER

CAT-II For these items the Quality Plans approved by OWNER. However no physical inspection shall be done by OWNER. The final acceptance by OWNER shall be on the basis review of documents

CAT-III For these items Quality control to be exercised as per Main Contractor Quality assurance system. The final acceptance by owner shall be on the basis of certificate of conformance

Q&A CONSULTANT

20/4/19

KUNDAN PRASAD

BHEL

8 kcl-PEM



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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbino & Aux.				REF NO. :	
	PACKAGE: TG					REV NO.:	
	CONTRACTOR: BHEL HARIDWAR CONTRACT NO.:					DATE: 24.04.2019	
Sl No.	Item	QP Insp. Cal	QP No.	Vendor/ Manufacturer Name	Place	SC APP L STATUS	Remarks
6	HP INNER CASING M/C	I	QVM-Q-	SANDE STAHLGUSS GMBH	GERMANY	A	
				KOCEL STEEL FOUNDRY CO. LTD.	CHINA	DR	
				ISGEC HEAVY ENGINEERING LTD	MUZZAFANAGAR	A	
				LITOSTROI STEEL LTD.	SLOVENIA	DR	
				STAR WIRE (INDIA) LTD.	Ballabgarh	DR	
				CFPP, BHEL	Haridwar	A	
				HEEP, BHEL	Haridwar	A	
7	HP TURBINE SHAFT FORGING 9-10% Cr	II	QVM-Q-	Rossi And Duso	Italy	A	NO SEPARATE VENDOR QP (ALREADY COVERED IN NTPC APPROVED BHEL MQP)
				MCE (New name BILFINGER MASCHINENBAU GMBH)	Austria	A	
				Bruno Presezz	Italy	A	
				Nugo Romano	Italy	A	
				SAARSCHEMME GMBH	Germany	A	
				SCHMIEDEWERKE GRODITZ GMBH	Germany	A	
				JAPAN CASTING AND FORGING	Japan	A	
8	HP TURBINE SHAFT M/C	I	QVM-Q-	THE JAPAN STEEL WORKS LTD.	Japan	A	
				ACCIAI SPECIALI TERNI S.P.A.	ITALY	A	
				BOHLER EDELSTAHL GMBH & CO. KG	AUSTRIA	DR	
				UMP TRADING S.A. (SUPPLY THRU ENERGOMASH, UKRAINE)	SWITZERLAND	DR	
				- HEEP	Haridwar	A	
				- Rossi And Duso	Italy	A	
				-Bruno Presezz	Italy	A	
9	HP TURBINE ROTOR	II	QVM-Q-	-Nugo Romano	Italy	A	NO SEPARATE VENDOR QP • CAT-I
				-Siemens AG	Germany	A	
				HEEP	Haridwar	A	
				Böhler	Austria	A	
				Waltwerke	Germany	A	
				Metal Ravne	Slovenia	A	
				Starwire	Ballabgarh	A *	
10	HP STATIONARY & MOVING BLADES BAR STOCK		QVM-Q-	Saarioha Advanced Material (old name: Kalyani Carpenter)	Pune	A#	# FOR HW10786 & HW10687
				BGH	GERMANY	A	



Signature

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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)	CONTRACTOR: BHEL HARDWAR CONTRACT NO.:	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.			REF NO.:
			Item	QIP Insp. Cat.	Vendor/ Manufacturer Name	
Sl No.					Place	SC_APP L_STATU S
11	HP STATIONARY & MOVING BLADES (M/C)			II	Germany	A
					Germany	A
					China	A
					Italy	A
					Poland	A
					Italy	DR
					Hardwar	A
					Germany	DR
					Hyderabad	DR
					Italy	DR
12	ESV & CV CASING CASTING (HP VALVES) MAT 9-10% Cr			I	AUSTRIA	A
					ITALY	A
					JAPAN	A
					JAPAN	A
					JAPAN	DR
					CHINA	DR
					GERMANY	A
					SLOVENIA	DR
					BALLABHAGARH	A
					MUJAFARVAGAR	A
					Hardwar	A
					Hardwar	A
					Italy	A
					Austria	A
					Italy	A
					Italy	A
					ITALY	A
					AUSTRIA	A
					ITALY	DR
					JAPAN	A
13	ESV & CV CASING (HP VALVES) M/C			I	Hardwar	A
					Hardwar	A
					Italy	A
					Austria	A
					Italy	A
					Italy	A
					ITALY	A
					AUSTRIA	A
					ITALY	DR
					JAPAN	A
14	CASTING FOR DIFFUSER / HP VALVE COVER / OVERLOAD VALVE CASING			II	ITALY	A
					AUSTRIA	A
					ITALY	DR
					JAPAN	A

approved for HP inner casing
machining- vendor list taken from
there

(QP APPROVAL REQD. FOR STARWIRE,
ISGEC and CFFP ONLY)

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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.	REF NO. :				
	PACKAGE: TG		REV NO.:				
	CONTRACTOR: BHEL HARIDWAR		DATE: 24.04.2019				
	CONTRACT NO.:						
Sl No.	Item	QP Insp. Cat.	QP No.	Vendor/ Manufacturer Name	Place	SC_APP L_STATU S	Remarks
				JAPAN CASTING AND FORGING	JAPAN	A	
				SCHMOLZ + BICKENBACH GUSS GMBH	GERMANY	DR	
				KOCEL STEEL FOUNDRY CO. LTD.	CHINA	DR	
				R.V. CASTING AND ENGINEERING	FARIDABAD	DR	
				GOODWIN STEEL CASTINGS LTD.	UK	DR	
				LITOSTROJ STEEL LTD.	SLOVENIA	A	
				STAR WIRE (INDIA) LTD.	BALLABHAGARH	A	
				ISGEC HEAVY ENGINEERING LTD	MUJAFFARNAGAR	A	
				CFPP, BHEL	Haridwar	A	
15	HP VALVE ASSEMBLY	I	QVM-Q	-HEEP	Haridwar	A	
16	HP JOINT BOLTS	I	QVM-Q	HEEP + NTPC approved sub-contractors #	Haridwar	A	
17	HP TURBINE ASSLY	I	QVM-Q	-HEEP	Haridwar	A	# NOTE 3
18	STEAM INLET / BREECH BLOCK / INLET CONNECTION / OVERLOAD CONNECTION / VALVE COVER / ALL RINGS & FORGINGS MAT 9-10%Cr	II	QVM-Q	STARWIRE	Ballaahgarh	A	QP APPROVAL REQD. FOR CFPP ONLY AND FOR OTHERS BHEL APPROVED QAP TO BE FOLLOWED
				CHW FORGE	GHAZIABAD	A	
				GOODLUCK ENGINEERING	GHAZIABAD	A	
				CFPP,BHEL	Haridwar	A	
				MIDHANI	HYDERABAD	A	
				BAY FORGE	TAMIL NADU	A	
				FORGITAL	ITALY	A	
				BOHLER	AUSTRIA	A	
19	FORGING FOR THREADED RING / SHAFT SEAL RING / RING / EXTRACTION INSERT / FLANGE MAT 1Cr 1Mo	II	QVM-Q	MACKEL ISPAT AND FORGINGS LTD	INDIA	DR	QP APPROVAL REQD. FOR CFPP ONLY AND FOR OTHERS BHEL APPROVED QAP TO BE FOLLOWED
				STAR WIRE (INDIA) LTD.	Ballaahgarh	A	
				CHW FORGE (P) LTD	GHAZIABAD	A	
				GOODLUCK ENGINEERING CO.	GHAZIABAD	A	
				GHAZIABAD FORGINGS PVT LTD	GHAZIABAD	DR	
				R. D. FORGE	GHAZIABAD	DR	
				CFPP, BHEL	Haridwar	A	
				VISHNU FORGE INDUSTRIES LTD.	Bangalore	A	
				RING FORGINGS PVT LTD	Bangalore	DR	
				GHAZIABAD ISPAT UDYOG LTD.	GHAZIABAD	DR	
				VIKRANT FORGE LIMITED	KOLKATA	DR	
				BAY-FORGE LIMITED	TAMIL NADU	A	
				FORGITAL ITALY S.P.A.	ITALY	A	



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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.				REF NO. :
		QIP Insp. Cat.	QIP No.	Vendor/ Manufacturer Name	Place	
SI No.	Item					REMARKS
20A	IP OUTER CASING CASTING (MODULAR CASTING)	II	QVM-Q:	HANWA CO. LTD. (MANUFACTURER: UBE STEELS, JAPAN) FRIEDRICH WILHELM-HUETTE EISEN ERGOCAST GUSS GMBH ACCIAIERIA FONDERIA CIVIDALE DALIAN HUARUI HEAVY INDUSTRY DALIAN KSK CO.LTD	JAPAN GERMANY GERMANY ITALY CHINA CHINA	NO SEPARATE VENDOR QP (ALREADY COVERED IN NTPC APPROVED BHEL MQP)
20B	BEARING PEDESTAL WITH COVER (MODULAR CASTING)	II	QVM-Q:	KOCHEL MACHINERY CO. LTD HANWA CO. LTD. (MANUFACTURER: UBE STEELS, JAPAN) ISGEC HEAVY ENGINEERING LTD FRIEDRICH WILHELM-HUETTE EISEN ERGOCAST GUSS GMBH ACCIAIERIA FONDERIA CIVIDALE DALIAN HUARUI HEAVY INDUSTRY DALIAN KSK CO.LTD	CHINA JAPAN MUZZAFANAGAR GERMANY GERMANY ITALY CHINA CHINA	
21	IP OUTER CASING M/C	I	QVM-Q:	KOCHEL MACHINERY CO. LTD - HEEP - LUDWIG LEHNER GMBH - MPC SRL BILFINGER MASCHINENBAU GMBH - LEIPERT MASCHINENBAU GMBH - GIMW PRAEZISIONS GMBH - HORST JUNG GMBH & CO	CHINA Hardwar GERMANY ITALY Austria GERMANY GERMANY Italy	To be machined at HEEP Hardwar
22	IP INNER CASING CASTING (9% Cr)	I	QVM-Q:	ACCIAIERIA FONDERIA CIVIDALE THE JAPAN STEEL WORKS LTD. STAR WIRE (INDIA) LTD. KOCHEL STEEL FOUNDRY CO. LTD. SANDE STAHLGUSS GMBH JAPAN CASTING AND FORGING HANWA CO. LTD. (MANUFACTURER: UBE STEELS, JAPAN) VOESTALPINE GIESEREI LINZ	ITALY JAPAN Ballabgarh CHINA GERMANY JAPAN JAPAN AUSTRIA	NO SEPARATE VENDOR QP EXCEPT FOR CFFP



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CUSTOMER: NTPC		PROJECT: KHURJA STPP (2 X 660MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.			REF NO. :
CONTRACTOR: BHEL HARIDWAR		PACKAGE: TG					REV NO. :
CONTRACT NO.:							DATE: 24.04.2019
Sl No.	Item	QIP Insp. Cat.	QIP No.	Vendor/ Manufacturer Name	Place	SC_APP L_STATU S	Remarks
29	IV CV VALVE CASING CASTING (MAT) 9-10 %Cr	I	QVM-Q	Praewest Praetisionswerkstaett	Germany	DR	QP APPROVAL REQD. FOR STARWIRE, CFPP, ISGEC
				HEEP	Hardwar	A	
				Euroflex Transmissions (India) Pvt. Ltd.	Hyderabad	DR	
				M/s Pietro Rosa TBM srl.	Italy	DR	
				VOESTALPINE GIESSEI LINZ	AUSTRIA	A	
				ACCIAIERIA FONDERIA CIVIDALE	ITALY	A	
				LUCCHINI RS S.P.A.	ITALY	DR	
				THE JAPAN STEEL WORKS LTD.	JAPAN	A	
				JAPAN CASTING AND FORGING	JAPAN	A	
				HANWA CO. LTD.	JAPAN	DR	
				(MANUFACTURER: UBE STEELS, JAPAN)			
				SCHMOLZ + BICKENBACH GUSS GMBH	GERMANY	DR	
				STAHLGUSS SAAR GMBH	GERMANY	DR	
				KOCEL STEEL FOUNDRY CO. LTD.	CHINA	DR	
30	IV CV CASING M/C	I	QVM-Q	ISGEC HEAVY ENGINEERING LTD	MUJAFARNAGAR	A	approved for HP inner casing machining- vendor list taken from there
				LITOSTROJ STEEL LTD.	Slovenia	DR	
				STAR WIRE (INDIA) LTD.	Ballaabgarh	A	
				CFPP, BHEL	Haridwar	A	
				HEEP + NTPC approved sub-contractors	Haridwar	A	
				Rossi And Duso	Italy	A	
				MCE (New name BILFINGER MASCHINENBAU GMBH)	Austria	A	
				Bruno Presezi	Italy	A	
				Nugo Romano	Italy	A	
				- HEEP	Hardwar	A	
				- HEEP + NTPC approved sub-contractors #	Hardwar	A	
				- HEEP	Hardwar	A	
				- HEEP + NTPC approved sub-contractors #	Hardwar	A	
				UMP TRADING S.A. (SUPPLY THRU ENERGO MASH, UKRAINE)	SWITZERLAND	DR	
				ACCIAI SPECIALI TERNI S.P.A. ITALY	Italy	A	
				BUDERUS EDELSTAHL GMBH	GERMANY	DR	
31	IV CV VALVE ASSEMBLY	I	QVM-Q	THE JAPAN STEEL WORKS LTD., JAPAN	Japan	A	# NOTE 3
				JAPAN CASTING AND FORGING, JAPAN	Japan	A	
				SAARSCHEMME GMBH, GERMANY	GERMANY	A	
32	IP JOINT BOLTS	I	QVM-Q				# NOTE 3
33	IP TURBINE ASSLY	I	QVM-Q				# NOTE 3
34	IP SHAFT SEALING RING	II	QVM-Q				# NOTE 3
35	LP TURBINE SHAFT FORGING	II	QVM-Q				# NOTE 3



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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.				REF NO. :
		QIP Insp. Cat.	QIP No.	Vendor/ Manufacturer Name	Place	REV NO.:
	PACKAGE: TG CONTRACTOR: BHEL HARDWAR CONTRACT NO.:					DATE: 24.04.2019
Sl No.	Item				SC_APP L_STATU S	Remarks
36	LP TURBINE SHAFT M/C	I	QVM-Q	CHINA FIRST HEAVY INDUSTRIES, CHINA SC DOOSAN IMGB SA, ROMANIA CHINA NATIONAL ERZHONG GROUP, CHINA SHANGHAI HEAVY MACHINERY PLANT, CHINA - HEEP - Rossi And Duso - Nugo Romano - Siemens AG	CHINA ROMANIA CHINA CHINA A A A A	
37	LP TURBINE ROTOR	I	QVM-Q	HEEP	A	# NOTE 3
38	LP INNER CASING FABRICATION	I	QVM-Q	- HEEP + NTPC approved sub-contractors #	A	# NOTE 3
39	LP INNER CASING M/C	I	QVM-Q	- HEEP + NTPC approved sub-contractors #	A	# NOTE 3
40	LP INNER CASING ASSLY	I	QVM-Q	- HEEP	A	# NOTE 3
41	CASING UPPER PART, CASING SIDE WALL (L&R), FRONT WALL (TS&GS)	I	QVM-Q	- HEEP + NTPC approved sub-contractors #	A	# NOTE 3
42	GUIDE BLADE CARRIER	I	QVM-Q	- HEEP + NTPC approved sub-contractors #	A	# NOTE 3
43	LPT COMPENSATORS	I	QVM-Q	BOA Bellows and expansion joints Flexatherm expansion PVT.Ltd. SHANGHAI YONGXIN CORRUGATE PIPE CO LTD Lonestar Industries HANTONG SHUGUANG EXPANSION JOINT Belman A/S Siemens Limited FLEXATHERM EXPANLOW PVT. LTD. LONESTAR INDUSTRIES UNITECH MACHINES LTD SHANGHAI YONGXIN CORRUGATE PIPE CO LTD	Germany VADODRA CHINA Chennai CHINA Denmark India India India Sshranpur CHINA	
44	COMPENSATOR PIPING (LP CROSS OVER PIPE, LP EXTRACTION PIPING A1, A2, A3, LP SHAFT SEAL COMPENSATOR, LPT COMPENSATOR FOR CASING GUIDE)	I	QVM-Q		DR DR* A DR A	*THEIR PRODUCT LINE IS ONLY EXPANSION BELOW
45	LP STATIONARY/ MOVING BLADE BARS	II	QVM-Q	- Bohler - Walzwerke	A A	NO SEPARATE VENDOR QP # For HW10786 & HW10687, NEW



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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.				REF NO. :	
	PACKAGE: TG					REV NO.:	
	CONTRACTOR: BHEL HARDWAR					DATE: 24.04.2019	
CONTRACT NO.:							
Sl No.	Item	OP Insp. Cat.	Q/P No.	Vendor/ Manufacturer Name	Place	SC_APP L_STATU S	Remarks
51	LP ASSEMBLY	I		-Siemens Ltd	Gurgaon - place is only for ordering	A #	# Machining at M/s Siemens Germany and raw material forging from : 1. Bohler(Austria), 2. Leistriz Rentscheid (Germany), 3. Sumitomo (Japan), 4. Pietro Rosa (Italy), 5. C-blade (Italy) and 6. Leistriz
52	COUPLING BOLTS & NUTS (HP/IP/LP)	I	QVM-Q-	- BHEL	Hardwar	A	
53	BRG. SHELL FOR JOURNAL BRG (Forging)	II	QVM-Q-	- HEEP + NTPC approved sub-contractors #	Hardwar	A	# NOTE 3
			QVM-Q-	MACKEL ISPAT AND FORGINGS LTD	KOLKATA	DR	NO SEPARATE VENDOR QP EXCEPT FOR CFFP
				STAR WIRE (INDIA) LTD.	Balabharth	A	
				KISAAN STEELS (PVT.) LTD.	GHAZIABAD	A	
				CHW FORGE (P) LTD	GHAZIABAD	A	
				GOOD LUCK ENGINEERING CO.	GHAZIABAD	A	
				GHAZIABAD FORGINGS PVT LTD	GHAZIABAD	DR	
				R. D. FORGE	GHAZIABAD	DR	
				CFFP, BHEL	HARIDWAR	A	
				VISHNU FORGE INDUSTRIES LTD.	Bangalore	A	
				RING FORGINGS PVT LTD	Bangalore	DR	
				GHAZIABAD ISPAT UDYOG LTD.	GHAZIABAD	DR	
				VIKRANT FORGE LIMITED	KOLKATA	DR	
				BAY-FORGE LIMITED	TAMIL NADU	A	
54	COMBINED RADIAL CUM THRUST BEARING	II	QVM-Q-	DAEDONG METAL INDUSTRY CO. LTD	South Korea	DR	
				EURO BEARINGS SRL	Italy	A	
				GFM S R L. (SOCIO UNICO)	Italy	DR	
				JOHN CRANE BEARING TECHNOLOGY (Now known as MIBA INDUSTRIAL BEARINGS)	Germany	A	
				OMEGA INDUSTRIES (P) LTD	India	A	
				SHENKE SLIDE BEARING CORPORATI	China	DR	
				SIEMENS LIMITED	India	A	
				KINGSBURY INC	USA	A	
				THE INDIA THERMIT CORPORATION	INDIA	DR	
				THUNDERBOLT CO. LTD	Korea	DR	
							supply from Siemens Germany)



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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.				REF NO. :
		Item	QIP Insp. Cat.	QIP No.	Vendor/ Manufacturer Name	Place
						SC_APP L_STATU
						REMARKS
						DATE: 24.04.2019
55		JOURNAL BEARING - WITHOUT DOVETAIL GROOVE	II	QVM-Q	SIEMENS LIMITED	India
56		TILTED PAD BEARING	II	QVM-Q	MIBA INDUSTRIAL BEARING	Germany
57		BEARING PEDESTAL WITH COVER (M/C)	I	QVM-Q	KINGBURY INC	USA
58		EHA FOR TURBINE VALVES	II	QVM-Q	EURO BEARINGS SRL	Italy
59		HPSU FOR EHA	II	QVM-Q	JOHN CRANE BEARING TECHNOLOGY (Now known as MIBA INDUSTRIAL BEARINGS)	Germany
60		THERMAL INSULATION FOR TURBINE	III	QVM-Q	- HEEP + NTPC approved sub-contractors	Hardwar
61		HP U-SEAL (NIMONIC) RING FORGING	III	QVM-Q	- Bosch Rexroth AG	Germany
62		FINISH MACHINED VALVE SEAT / VALVE CONE / VALVE SPINDLE / DIFFUSER	III	QVM-Q	- Horst Thiele Maschinenbau	Germany
63		TURBINE INTEGRAL PIPING	I	QVM-Q	- Bosch Rexroth	Germany*
					- Hydac	Germany
					- Heineke Mess-und Regeltechnik	Germany
					- Reicher Engg	Germany
					- Hydac	India
					Heinrich Tapp GmbH	Germany
					Eugen Arnold GmbH	Germany
					SMT EXPORT (M/S FRISA FORIADOS, MEXICO)	INDIA
					MIDHANI	INDIA
					WARTON IMPORT (M/S SHANGHAI TENGHUI, CHINA)	China
					FORGITAL	Italy
					Sai Surface coating	India
					DELORE WEAR SOLUTIONS GMBH	Germany
					Stellba AG	Germany
					ATS Techno Pvt. Ltd.	Ahmedabad
					Associated Plasmatron Pvt.Ltd., Navi Mumbai	India
					ASM Thermal Spray.	Medak, Telangana
					UI PIPE FITTINGS PVT. LTD.	Hyderabad
					UNITECH MACHINES LTD	Saharapur
					BEND JOINTS	Bhopal
					PAL ENGINEERING CORP.	Yamunanagar
					DEE DEVELOPMENT ENGINEERS LIMITED	Faridabad
					S&G ENGINEERS PVT. LTD	Palwal

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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)	LIST OF ITEMS REQUIRING QUALITY PLAN AND				REF NO. :	
		SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.					
Sl No.	Item	QP Insp. Cat.	QP No.	Vendor/ Manufacturer Name	Place	SC_APP L_STATU S	Remarks
64	OIL MODULE & ACCESSORIES	II		GUJARAT INFRAPIPES PVT. LTD.	Baroda	A	
				BABY ENGINEERING PVT. LTD.	Tiruchirapalli	DR	
				FLASH FORGE PVT. LTD	Vishakhapatnam	A	
				STEEL CRAFT INDUSTRIES LTD	Yamunanagar	A	
				BHILAI ENGG. CORPORATION LTD	BHILAI	DR	
				KELAG AG	SWITZERLAND	A	
				VOL DELMAS GMBH	GERMANY	A	
				ALLWEILER INDIA PRIVATE LTD, INDIA	UK	DR	
				AEL APPARATEBAU GMBH	GERMANY	A	
				FLENCO FLUID SYSTEMS S.R.L	ITALY	A	
65	OIL PURIFICATION SYSTEM	I		HYDAC(INDIA)PVT LTD	Navi Mumbai, India	DR	# centrifuge from Germany
				KING DYNAMICS AG	SWITZERLAND	A	
				GEA WESTFALIA SEPERATOR INDIA	New Delhi (India)	A#	
				ALFA LAVAL (INDIA) LIMITED	Pune	A	
				Pal Enge. CORPORATION	Yamunanagar	A	
				Shape Enge. CO.PVT LTD.	Haridwar	A	
				Bend Joints	Bhopal	A	
				Pipe Supports Co.	Hyderabad	A*	
				SPRING SUPPORTS MFG.CO	Howrah	DR	
				Hesterberg GmbH & Co. Kg	GERMANY	DR	
66	HANGERS & SUPPORT	I		AAA SUPPORTS PRIVATE LIMITED	Vadodara	A	AS PER APPROVAL CONDITION
				Fast Tech Engineers Pvt. Ltd.	Thane	DR	
				Bergen Pipe Supports India Pvt Ltd	Chittor, AP	A	
				Unison Etech CO. LTD	KOREA	A	
				Hatech HAAG	Germany	DR	
				Siemens Ltd	India	DR	
				SPRING SUPPORTS MFG.CO.	HOWRAH (INDIA)	A	
				DEE DEVELOPMENT ENGINEERS LTD.	INDIA	DR	
				AAA SUPPORTS PRIVATE LIMITED	VADODARA	A	
				LISEGA INDIA PRIVATE LIMITED	INDIA	A*	
67	VARIABLE LOAD SPRING CAGES	II		PIPE SUPPORTS CO.	HYDERABAD	A	AS PER APPROVAL CONDITION
				BERGEN PIPE SUPPORTS INDIA PVT	CHITTOR, AP	A	
				UNISON ETECH CO. LTD	KOREA	A	



C.P.

S. Gargava

S. Gargava

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CUSTOMER: NTPC		PROJECT: KHURJA STPP (2 X 660MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND		REF NO. :	
		PACKAGE: TG		SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.		REV NO.:	
		CONTRACTOR: BHEL HARIDWAR				DATE: 24.04.2019	
		CONTRACT NO.:					
SI No.	Item	QP Insp. Cat.	QP No.	Vendor/ Manufacturer Name	Place	SC_APP L STATUS	Remarks
68	THERMAL INSULATION OF TURBINE INTEGRAL PIPING	I		LLOYD INSULATIONS (INDIA) LTD.	New Delhi	A	Insulation material to be procured from NTPC approved sources only. NTPC approved sources are :- 1) Lloyd- Daman/Durgapur/Jamshedpur 2) Rockwool - Medak 3) Lapinus Rockwool- Malanpur 4) Minwool - Rajnandgaon 5) Minsulate Manufacturing Company- Jamshedpur
				Indo Bell Insulations LTD.	Kolkata	A	
				SHREE ENGINEERS	Indore	A	
69	CONDENSOR SUB ASSEMBLY	I	QVM-Q	HEEP + BHEL approved SUB CONTRACTORS	HARIDWAR	A	
70	CONDENSOR TUBE PLATES	I	QVM-Q	HEEP + BHEL approved SUB CONTRACTORS	HARIDWAR	A	
71	WELDED AUSTENITIC SS TUBES (FOR CONDENSER)		QVM-Q	RATNAMANI METALS & TUBES LTD	INDIA	A	
				MAXIM TUBES COMPANY PVT. LTD.	INDIA	DR	
				NEOTISS LIMITED	INDIA	A	
				REMI EDELSTAHL TUBULARS LTD	INDIA	A	
				RATNADEEP METAL & TUBES LTD	INDIA	A	
				SHANGHAI HUAGANG STAINLESS STEEL	CHINA	DR	
				ZHEJIANG JIULI HI-TECH METALS	CHINA	DR	
				SCHOELLER WERK GMBH & CO KG	GERMANY	A	
				PLYMOUTH TUBE COMPANY	USA	A	
				SHINHAN METAL CO. LTD.	KOREA	A	
72	LP HEATER TUBES	I	QVM-Q	Apex Tubes Pvt Ltd	GURGAON, HARYANA, India	A	
				Ratnamani Metals & Tubes Ltd	AHMEDABAD, India	A	
				NEOTISS LTD (OLD NAME: Vallourec Heat Exchanger Tubes Limited)	MEDAK DISTRICT, ANDHRA PRADESH, India	A	
				Remi Edelstahl Tubular Ltd	MUMBAI, India	A	
				Ratnadeep Metals & Tubes Ltd	MUMBAI, India	A	
				MAXIM TUBES CO. LTD	GANDHINAGAR, GUJARAT, India	DR	



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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.				REF NO. :	
	PACKAGE: TG					REV NO.:	
	CONTRACTOR: BHEL HARIDWAR					DATE: 24.04.2019	
	CONTRACT NO.:						
Sl No.	Item	QIP Insp. Cat.	QIP No	Vendor/ Manufacturer Name	Place	SC_APP L_STATUS	Remarks
73	GSC TUBES	I	QVM-Q-	Heavy Metals & Tubes Ltd	AHMEDABAD (GUJARAT), India	DR	
				Ratnamani Metals & Tubes Ltd.	AHMEDABAD, India	A	
				NEOTISS LTD (OLD NAME: Vallourec Heat Exchanger Tubes Limited)	MEDAK DISTRICT, ANDHRA PRADESH, India	A	
				Remi Edelstahl Tubular Ltd	MUMBAI, India	A	
				Ratnadeep Metals & Tubes Ltd	MUMBAI, India	A	
				Heavy Metals& Tubes Ltd	AHMEDABAD (GUJARAT), India	DR	
				Apex Tubes Pvt Ltd	GURGAON, HARYANA, India	A	
74	GLAND STEAM CONDENSER	I	QVM-Q-	Quality Stainless Pvt Ltd	HISAR, HARYANA, India	DR	
				Bhandari Foils & Tubes Ltd	DEWAS (M.P.), India	DR	
				- Prakash Steeldage Ltd	MUMBAI, India	DR	
				- HECP + NTPC approved sub-vendor#	Hardwar	A	# refer to NOTE 3
				BHEL Bhopal	Bhopal	A	
				- HECP + NTPC approved sub-vendor#	Hardwar	A	# refer to NOTE 3
				BHEL Bhopal	Bhopal	A	
76	GLAND STEAM EXHAUSTER WITH MOTOR	I	QVM-Q-	Air MOVEMENT AND CONTROL SYSTEMS	India	A	
				SK System PVT LTD	India	A	
				DUSTECH ENGINEERS PVT LTD	India	DR	
				CB Doctor VENTILATORS PVT LTD	India	A	

NOTE 1:

QIP/ INSPECTION CAT-I: QIP APPROVAL AND INSPECTION BY NTPC

QIP/ INSPECTION CAT-II: QIP APPROVAL BY NTPC, NO PHYSICAL INSPECTION BY NTPC. ACCEPTANCE BASED ON REVIEW OF CONTRACTOR INSPECTION REPORT/ TC.

QIP/ INSPECTION CAT-III: NO QIP APL AND INSPECTION BY NTPC. ACCEPTANCE BASED ON REVIEW OF COC BY BHEL.

Note 2: IN ADDITION TO ABOVE SOURCES BHEL MAY PROCURE ITEMS FROM SIEMENS, SIEMENS APPROVED SOURCES. BHEL TO SUBMIT DOCUMENTS IN SUPPORT OF SIEMENS APPROVED SOURCE.

NOTE 3: MQP APPROVED FOR BHEL HARIDWAR SHALL BE USED ON SUB VENDOR WORKS. FABRICATION AND MACHINING VENDORS FOR BHEL TURBINE COMPONENTS AS PER ANNEXURE XXX



[Signature]

[Signature]
Sugender Aggarwal
S.A., BHEL HWR

[Signature]

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CUSTOMER: NTPC	PROJECT: KHURJA STPP (2 X 660MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND		REF NO. :	
	PACKAGE: TG		SUBCONTRACTOR APPROVAL SUB SYSTEM: Steam Turbine & Aux.		REV NO.:	
CONTRACTOR: BHEL HARIDWAR		CONTRACT NO.:		DATE: 24.04.2019		Remarks
SI No.	Item	QP Insp. Cat.	QP No.	Vendor/ Manufacturer Name	Place	SC_APP L_STATU S
SUB QP ITEMS						
1	CONDENSOR	I	QVM-Q	BHEL	HARIDWAR	NOTE 1
2	LP BYPASS SYSTEM	I	QVM-Q	- CONTROL COMPONENT INDIA PRIVATE LTD. - Bomafa - Koso India Pvt. Ltd. - Weiland & Tuxhorn - Holter REGELARMATUREN GMBH & CO - Parcol S.P.A	SRICITY, AP INDIA Germany India Germany Germany Italy	NOTE 1 NOTE 1 NOTE 1 NOTE 1 NOTE 1 NOTE 1
3	CONDENSOR AIR EVACUATION PACKAGE	I	QVM-Q	GARDNER DENVER ENGINEERED PRODUCTS INDIA PRIVATE LIMITED Gardner Denver Nash Machinery Edwards Ltd Guangdong Foshan Pump Factory, Guangdong	INDIA CHINA UK CHINA	NOTE 1 NOTE 1 NOTE 1 NOTE 1

Note-1: Manufacturer/sub vendor shall be considered for acceptance subject to Sub-QP/provenness approval from NTPC Engineering & Owner.



Signature
Sugandh Dhanwal
QA, BHEL Haridwar

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PROJECT: 2X660 MW KHURJA STPS
PACKAGE: 2 X 660 MW TG PKG
CONTRACTOR : BHEL, HYDERABAD
CONTRACT NO.: XXX

LIST OF ITEMS REQUIRING QUALITY PLAN AND
SUBCONTRACTOR APPROVAL

SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP)
Drain Cooler and Deaerator

REF NO.:
REVISION NO.: 00
DATE: 26-04-2019

SN	ITEM	Q/INS- PN CAT	Q/No. xxxv-110	Q/ SUB- MISSIO N SCHED ULE	Q/ APPL SCHED ULE	PROPOSED SUBSUPPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
1	BFP-PUMP CASING (OUTER) / BFP SUCTION COVER CASING COVER DISCHARGE NOZZLE	1				PYUNG SAN METAL	KOREA	N			BHEL SHH APPROVED SUB-VENDOR
		1				UMETOKU CO., LTD.	JAPAN	N			
		1				MURABAYASHI	JAPAN	N			
		1				BHEL, CHFP	HARDWAR	N			
		1				RING MILL SPA.	ITALY	N			
		1				FOMAS	ITALY	N			
		1				HYUNJIN MATERIALS	JAPAN	N			
		1				HYUNJIN MATERIALS	KOREA	N			
		1				HATAKEYAMA IRON	JAPAN	N			
		1				MYSKO	KOREA	N			
		1				METAL FORGINGS	DELHI	DR			BHEL PAID VENDOR

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Signature
S. K. SINGH
NTPC

Signature
(MIR) (MIR) (MIR)

Signature
C/S



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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW TG PKG CONTRACTOR: BHEL HYDERABAD CONTRACT NO.: XXX		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL					REF NO.: REVISION NO.: 00 DATE: 26-04-2019				
SN	ITEM	QP/INS- PN CAT	QP No. XXX-110	QP SUB- MISSIO N SCHED ULE	QP APPL SCHE DULE	PROPOSED SUB SUPPLIER	PLACE	SS APPL STAT US / CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
2	BFP PUMP CASING (INNER)	1				HIMET	KOREA	DR			BHEL PAID VENDOR
		1				BAY FORGE	CHENNAI	DR			BHEL PAID VENDOR
		1				HIMET	KOREA	N			
		1				WON KANG METAL	KOREA	N			
		1				YAMAMATO INDUSTRIAL CO.	JAPAN	N			BHEL/MHI APPROVED SUB- VENDOR
		1				SUNG SHIN M-TECH	KOREA	N			
		1				VOIST ALPINE.	AUSTRIA	N			BHEL APPROVED VENDOR
		1				ULTIMATE ALLOYS	COMBATORE	DR			BHEL PAID VENDOR
3	BFP SHAFT	1				UMETOKU CO. LTD.	JAPAN	N			BHEL/MHI APPROVED SUB- VENDOR
		1				DAIDO STEEL	JAPAN	N			
		1				KUSAKAWA TEKKOU	JAPAN	N			
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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW TG PKG CONTRACTOR : BHEL, HYDERABAD CONTRACT NO.: XXX				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL				SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP) Drain Cooler and Deaerator				REF NO.: REVISION NO.: 00 DATE: 26-04-2019																																																																																																																																																																																																																																																																																																																																																																																													
SN	ITEM	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS- FN CAT	Q/INS-

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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW TG PKG CONTRACTOR : BHEL, HYDERABAD CONTRACT NO.: XXX				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL				REF NO.:		
				SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP) Drain Cooler and Deaerator				REVISION NO.: 00		
								DATE: 26-04-2019		
SN	ITEM	QP/ INS- FN CAT	QP No. XXXX-110	QP SUB- MISSIO N SCHED ULE	PROPOSED SUBSUPPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
5	BFP SUCTION FORGING/SUCTION NOZZLE	1			CHUNJI CORPORATION	KOREA	N			BHEL/NHI APPROVED SUB- VENDOR
		1			IPCL	BHAVNAGAR	DR			BHEL PMD VENDOR
		1			ISGEC HEAVY ENGG LTD	MUZAFFARN AGAR	N			BHEL/NHI APPROVED SUB- VENDOR
		1			HINDUSTAN UDYOG LTD.	KOLKATA/ NAGPUR	N			
		1			PTC	LUCKNOW	N			
		1			GOLDEN IRON & STEEL WORKS	NEW DELHI	DR			BHEL PMD VENDOR
		1			METAL FORGINGS	DELHI	DR			BHEL PMD VENDOR
		1			VISHNU FORGE INDUSTRIES	BENGALURU	DR			BHEL PMD VENDOR
		1			KISCO CASTINGS	MANDI GOBINDGAR H	DR		BHEL PMD VENDOR	

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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW TG PKG CONTRACTOR : BHEL, HYDERABAD CONTRACT NO.: XXX		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL					SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP) Drain Cooler and Deaerator					REF NO.: REVISION NO.: 00 DATE: 26-04-2019	
BHEL ATPC		SN	ITEM	QTY INS. PN CAT	QTY SUB- MISSIO N SCHED ULE	QTY APPL SCHED ULE	PROPOSED SUBSUPPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS	
6	BFP SUCTION NOZZLE CASTING			1			CHW FORCE PVT LTD	GHAZIABAD	DR			BHEL PAID VENDOR	
				1			PAHLADRAI STEEL FORGING WORKS	KANPUR	DR			BHEL PAID VENDOR	
				1			BHEL CFPP	HARDWAR	DR			BHEL SISTER UNIT	
				1			PRAKASH YANTRA UDYOG PVT LTD	GHAZIABAD	DR			BHEL PAID VENDOR	
				1			MAKEL ISPAT & FORGING LTD	DURGAPUR	DR			BHEL PAID VENDOR	
				1			ISGEC HEAVY ENGG LTD	MUZAFFARN AGAR	N			BHEL/MHI APPROVED SUB- VENDOR	
		1			HINDUSTAN UDYOG LTD.	KOLKATA/ NAGPUR	N						
		1			ULTIMATE ALLOYS PVT LTD	COIMBATORE	DR					BHEL PAID VENDOR	
		1			PIC INDUSTRIES LIMITED	LUCKNOW	DR					BHEL PAID VENDOR	

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PROJECT: 2X660 MW KIURJA STPS
PACKAGE: 2 X 660 MW TG PKG
CONTRACTOR : BHEL, HYDERABAD
CONTRACT NO.: XXX

LIST OF ITEMS REQUIRING QUALITY PLAN AND
SUBCONTRACTOR APPROVAL

SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP)
Drain Cooler and Deaerator

REF NO.:
REVISION NO.: 00
DATE: 26-04-2019

SN	ITEM	QP/INS- FN CAT	QP No. XXXX-110	QP SUB- MISSIO N SCHED ULE	QP APPL SCHE DULE	PROPOSED SUBSPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
7	BFP FORGED CASING WEAR RINGS	I				BHEL	HYDERABAD	N			
		I				SIMPLEX CASTINGS	BHILAI RAIPUR	DR			BHEL PAID VENDOR
		II				FIRTH VICKERS	UK	N			BHEL/MHI APPROVED SUB- VENDOR
		II				FIRTH RIXON RINGS LTD (FORMERLY AURORA FORGINGS)	UK	N			
		II				RELY METPRO	S AFRICA	N			
		II				TAYLOR FORGING	UK	N			
		I				ARM & HAMMER FORGINGS PVT LTD	FARIDABAD	DR			BHEL PAID VENDOR
		I				KISSAN STEELS	GHAZIABAD	DR			BHEL PAID VENDOR
		I				GHAZIABAD ISPAT	GHAZIABAD	DR			BHEL PAID VENDOR
		I				METAL FORGINGS	DULH	DR			BHEL PAID VENDOR

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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW TGPKG CONTRACTOR: BHEL, HYDERABAD CONTRACT NO.: XXX		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL				REF NO: REVISION NO.: 00 DATE: 26-04-2019				
SN	ITEM	QP/INS- PN CAT	QP No. XXXX-110	QP SUB- MISSION SCHED DUE	PROPOSED SUBSUPPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED DUE	SC APPL SCHED DUE	REMARKS
		I			KISCO CASTINGS	MANDI GOBINDGARH	DR			BHEL PMD VENDOR
		I			CHW FORGE PVT LTD	GHAZIABAD	DR			BHEL PMD VENDOR
		II			PAHILADRAI STEEL FORGING WORKS	KANPUR	N			BHEL/MHI APPROVED SUB- VENDOR
		I			SAURABHI METALS PVT LTD	BHOPAL	DR			BHEL PMD VENDOR
		I			PRAKASH VANTRA UDYOG PVT LTD	GHAZIABAD	DR			BHEL PMD VENDOR
		I			HIMET	KOREA	N			
		I			EBARA METAL	JAPAN	N			BHEL/MHI APPROVED SUB- VENDOR
		I			WON KANG METAL	KOREA	N			
		I			VOIST ALPINE	AUSTRIA	N			
		I			ISCHEC III AVY ENGG LTD	MUZAFFAR NAGAR	N			NAME CHANGED
		I			SUNG-SHIN M-TECH	KOREA	N			BHEL/MHI APPROVED SUB- VENDOR
8	BP PUMP CASING/ CASING CASTING CASING COVER									

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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW TG PKG CONTRACTOR: BHEL HYDERABAD CONTRACT NO.: XXX		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL					REF NO.: REVISION NO.: 00 DATE: 26-04-2019				
SN	ITEM	QP/INS- PN CAT	QP No. XXX-110	QP SUB- MISSION SCHED ULE	QP APPL SCHED DULE	PROPOSED SUBSPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
9	BP IMPELLER	1				HINDUSTAN UDYOG LTD	KOKATA NAGPUR	DR			BHEL PAID VENDOR
		1				SIMPLEX CASTING	RAIPUR	N			BHEL/MHI APPROVED SUB- VENDOR
		1				YPC LTD	JAPAN	N			
		1				EBARA METAL	JAPAN	N			
		1				IFCL	BHAVNAGAR	DR			FOR ID BP
		1				IFCL	BHAVNAGAR	A			FOR MD BP
		1				CHUNJI CORPORATION	KOREA	N			BHEL/MHI APPROVED SUB- VENDOR
		1				PTC	MEHSANA	DR			
10	BP SHAFT (FORGING)	1				MURABAYASHI (MIYAZAKI TEKKOU)	JAPAN	N			BHEL/MHI APPROVED SUB-

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(M. Rajan)



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PROJECT: 2X660 MW KHURJA STPS
PACKAGE: 2 X 660 MW TG PKG
CONTRACTOR: BHEL, HYDERABAD
CONTRACT NO.: XXX

LIST OF ITEMS REQUIRING QUALITY PLAN AND
SUBCONTRACTOR APPROVAL

SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP)
Drain Cooler and Deaerator

REF NO.:
REVISION NO.: 00
DATE: 26-04-2019

SN	ITEM	QPL INS- PN CAT	QPL No. XXX-110	QPL SUB- MISSIO N SCHED ULE	QPL APPL SCHE DULE	PROPOSED SUBSUPPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
		1				UMETOKU CO. LTD.	JAPAN	N			VENDOR
		1				DIADO STEEL	JAPAN	N			
		1				KUSAKAWA IRON WORKS	JAPAN	N			
		1				ONOHARA IRON WORKS	JAPAN	N			
		1				FOMAS	ITALY	N			
		1				VISHNU FORGE	BANGALORE	N			
		1				NISSOIWAI	JAPAN	N			
		1				FORGIA RAPIDA	ITALY	N			
		1				KUSAKAWA IRON WORKS	JAPAN	N			
		1				BHEL - CFP	HARIDWAR	N			BHEL/MHI APPROVED SUB- VENDOR
		1				CHW FORGE PVT LTD	GHAZIABAD	DR			BHEL/IND VENDOR

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PROJECT: 2X660 MW KHURJA STPS
PACKAGE: 2 X 660 MW TG PKG
CONTRACTOR : BHEL HYDERABAD
CONTRACT NO.: XXX

LIST OF ITEMS REQUIRING QUALITY PLAN AND
SUBCONTRACTOR APPROVAL

SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP)
Drain Cooler and Deaerator

REF NO.:
REVISION NO.: 00
DATE: 26-04-2019

SN	ITEM	QTY INS- PN CAT	QIP No. XXXX-110	QIP SUB- MISSION SCHED ULE	QIP APPL SCHE DULE	PROPOSED SUBSUPPLIER	PLACE	SS APPL STAT US / CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
11	BP WEAR RINGS	I				PAILADRAI STEEL FORGING WORKS	KANPUR	DR			BHEL PAID VENDOR
		I				SAURABH METALS PVT LTD	BHOPAL	DR			BHEL PAID VENDOR
		I				METAL FORGINGS	DELHI	DR			BHEL PAID VENDOR
		II				FIRTH VICKERS	UK	N			BHEL/MSH APPROVED SUB- VENDOR
		II				TAYLOR FORGINGS	UK	N			
		II				FIRTH RIXON RINGS LTD (FORMERLY AURORA FORGINGS)	UK	N			
		II				RELY METPRO	S AFRICA	N			
		I				ARM & HAMMER FORGINGS PVT LTD	FARIDABAD	DR			BHEL PAID VENDOR
		I				KISSAN STEELS	GHAZIABAD	DR			BHEL PAID VENDOR
		I				GHAZIABAD ISPAI	GHAZIABAD	DR			BHEL PAID VENDOR

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PROJECT: 2X660 MW KHURJA STPS
PACKAGE: 2 X 660 MW TG PKG
CONTRACTOR : BHEL, HYDERABAD
CONTRACT NO.: XXX

LIST OF ITEMS REQUIRING QUALITY PLAN AND
SUBCONTRACTOR APPROVAL

SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP)
Drain Cooler and Deaerator

REF NO.:
REVISION NO.: 00
DATE: 26-04-2019

SN	ITEM	QIP/INS-PN CAT	QIP No. VAW-110	QIP SUB-MISSIO N SCHED ULE	QIP APPL SCHED ULE	PROPOSED SUB SUPPLIER	PLACE	SS APPL STAT US / CAT	SS DETAIL SUB-SCHED ULE	SC APPL SCHED ULE	REMARKS
		I				METAL FORGINGS	DELHI	DR			BHEL PMD VENDOR
		I				KISCO CASTINGS	MANDI GOHENDGAR	DR			BHEL PMD VENDOR
		I				CHW FORGE PVT LTD	GHAZIABAD	DR			BHEL PMD VENDOR
		II				PAHLADRAI STEEL FORGING WORKS	KANPUR	N			BHEL/MHI APPROVED SUB-VENDOR
		I				SAURABH METALS PVT LTD	BHOPAL	DR			BHEL PMD VENDOR
		I				PRAKASH YANTRA UDYOG PVT LTD	GHAZIABAD	DR			BHEL PMD VENDOR
12	BOOSTER PUMP(TD)	I				MHI	JAPAN	A			
13	BOOSTER PUMP(MD)	I				BHEL	HYDERABAD	A			MHI DESIGN
14	CEP STAGE BOWLS (1 ST) STAGE CASING, INTER	I				BHEL	HYDERABAD	A			
		I				WAKATSUKI KOUSAKUSYO	JAPAN	N			MHI RECOMMENDED

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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW TG PKG CONTRACTOR: BHEL, HYDERABAD CONTRACT NO.: XXX		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL				REF NO.: REVISION NO.: 00 DATE: 26-04-2019					
SN	ITEM	QIP/INS- PN CAT	QIP No. XXX-110	QIP SUB- MISSIO N SCHED ULE	QIP APPL SCHED DULE	PROPOSED SUBSUPPLIER	PLACE	SS APPL STAT US / CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
VENDORS											
1	& DELIVERY STAGE (BOWLS)	1				HIMET	KOREA	N			
1		1				WON KANG MATERIAL	KOREA	N			
1		1				SUNG SHIN M-TECH	KOREA	N			
1		1				HYOSUNG INDUSTRIES	KOREA	N			
1		1				FUJIMOTO CHU ZOU	JAPAN	N			
1		1				ABB-ABL-LTD	SHAHABAD	N			
1		1				SIMPLEX	RAIPUR	N			
1		1				YPC LTD	KOREA	N			
1		1				UPPAL FERROCAST	HYDERABAD	N			
1		1				KIMURA CASTINGS	JAPAN	N			BHEL/MHI APPROVED SUB- VENDOR
1		1				EBARA METAL	JAPAN	N			

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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW TG PKG CONTRACTOR : BHEL, HYDERABAD CONTRACT NO.: XXX		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL					REF NO.:				
		SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP) Drain Cooler and Deaerator					REVISION NO.: 60				
							DATE: 26-04-2019				
SN	ITEM	QIP/INS- PN CAT	QIP No. XXXX-110	QIP SUB- MISSIO N SCHED ULE	QIP APPL SCHED ULE	PROPOSED SUB SUPPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED ULE	SS APPL SCHED ULE	REMARKS
		I				HINDUSTAN UDYOG	KOLKATA/ NAGPUR	DR			BHEL PMD VENDOR
		I				ISGEC HEAVY ENGINEERING	MUZAFFAR AGAR	DR			BHEL PMD VENDOR
		II				HYOSUNG INDUSTRIES CO.	KOREA	N			
		II				KIMURA CASTING	JAPAN	N			
		II				EBARA METAL	JAPAN	N			BHEL/MHI APPROVED SUB- VENDOR
		II				WAKATSUKI KOUSAKUSYO	JAPAN	N			
		II				FUJIMOTO CHUZOU	JAPAN	N			
		II				ABB-ABL-LTD	SHALIBAD	N			
		II				SIMPLEX	BHEL/RAIPUR	N			BHEL/MHI APPROVED SUB- VENDOR
		II				UPPAL FERROCAST	HYDERABAD	N			
15	BELL MOUTH (SUCTION BELL)										

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BHEL



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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW TG PKG CONTRACTOR: BHEL HYDERABAD CONTRACT NO.: XXX		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL					REF NO: REVISION NO.: 00 DATE: 26-04-2019				
SN	ITEM	QP/INS- FN CAT	QP No. XXX-110	QP SUB- MISSION SCHED ULE	OP APPL SCHED DULE	PROPOSED SUBSUPPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
16	CEP IMPELLER	II				PRAKASA SPECIRO CAST PVT LTD	VJAYAWAD A	DR			BHEL PAID VENDOR
		II				JAYASWAL NEECO INDUSTRIES	NAGPUR	DR			BHEL PAID VENDOR
		I				YPC LTD	KOREA	N			
		I				CHUNJI CORPORATION	KOREA	N			
		I				EBARA METAL	JAPAN	N			
		I				IPCL	BHAVNAGAR	A			BHEL TO SUBMIT THE APPROVAL DETAILS FOR WEIR
		I				IPCL	BHAVNAGAR	DR			FOR MII MODEL
17	CEP SHAFT FORGING	I				UMETOKU CO LTD.	JAPAN	N			BHEL/MHI APPROVED SUB- VENDOR
		I				MURABAYASHI	JAPAN	N			BHEL/MHI APPROVED SUB- VENDOR
		I				SANDVIK	SWEDEN	N			

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PROJECT: 2X660 MW KHURJA STPS
PACKAGE: 2 X 660 MW TG PKG
CONTRACTOR: BHEL, HYDERABAD
CONTRACT NO.: XXX

LIST OF ITEMS REQUIRING QUALITY PLAN AND
SUBCONTRACTOR APPROVAL

SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP)
Drain Cooler and Deaerator

REF NO.:
REVISION NO.: 00
DATE: 26-04-2019

SN	ITEM	Q/INS- FN CAT	Q/No. XXX-110	Q/ SUB- MISSION SCHED ULE	Q/ APPL SCHE DULE	PROPOSED SUBSUPPLIER	PLACE	SS APPL STAT US/ CAT	SS DETAIL SUB- SCHED ULE	SC APPL SCHED ULE	REMARKS
1						VISHNU FORGE	BANGALORE	N			
1						BHEL - CFEP	HARDWAR	N			
1						FORGIA RAPIDA	ITALY	N			
1						DAIDO STEEL	JAPAN	N			
1						METAL FORGINGS PVT LTD	DELHI	DR			BHEL PAID VENDOR
1						BHARAT FORGE LIMITED	PUNE	DR			BHEL PAID VENDOR
1						BAY-FORGE LIMITED	CHENNAI	DR			BHEL PAID VENDOR
1						GHAZIABAD ISPAT UDYOG PVT LTD	GHAZIABAD	DR			BHEL PAID VENDOR
1						PRAKASA YANTRA UDYOG	VILAYAWAD	DR			BHEL PAID VENDOR
1						CUW FORGE PVT LTD	GHAZIABAD	DR			BHEL PAID VENDOR

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PROJECT: 2X660 MW KHURJA STPS PACKAGE: 2 X 660 MW 1G PKG CONTRACTOR: BHEL, HYDERABAD CONTRACT NO.: XXX				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUBCONTRACTOR APPROVAL				REF NO.: REVISION NO.: 00 DATE: 26-04-2019		REMARKS
SUB SYSTEM: BFP, Drive Turbine, Heaters (HP, LP) Drain Cooler and Degenerator				SS APPL STAT US / CAT	PLACE	PROPOSED SUB SUPPLIER	QP APPL SCHE DULE	SS DETAIL SUB- SCHIE DULE	SC APPL SCHIE DULE	
SN	ITEM	QP/ INS- FN CAT	QP No. XXXX-110	QP SUB- MISSO N SCHIE DULE	PROPOSED SUB SUPPLIER	PLACE	SS APPL STAT US / CAT	SS DETAIL SUB- SCHIE DULE	SC APPL SCHIE DULE	REMARKS
18	CLP WEAR RINGS	I			PAHLADRAI STEEL FORGING WORKS	KANPUR	DR			BHEL PAID VENDOR
		I			SAURABH METALS PVT LTD	BHOPAL	DR			BHEL PAID VENDOR
		I			MACKEIL ISPAT & FORGING	DURGAPUR	DR			BHEL PAID VENDOR
		II			FIRTH VICKERS	UK	N			BHEL/MHI APPROVED SUB- VENDOR
		II			TAYLOR FORGINGS	UK	N			
		II			FIRTH RIXON RINGS LTD (FORMERLY AURORA FORGINGS)	UK	N			
		II			RELY METPRO	S AFRICA	N			
		I			ARM & HAMMER FORGINGS PVT LTD	FARIDABAD	DR			BHEL PAID VENDOR

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PROJECT: 2X660 MW KHURJA STPS
PACKAGE: 2 X 660 MW 1G PKG
CONTRACTOR : BHEL, HYDERABAD
CONTRACT NO.: XXX

LIST OF ITEMS REQUIRING QUALITY PLAN AND
SUBCONTRACTOR APPROVAL

SUB SYSTEM: BFP, Drive Turbine, Heaters (HIP, LP)
Drain Cooler and Deaerator

REF NO.:

REVISION NO.: 00

DATE: 26-04-2019

REMARKS

SN

ITEM

QIP/
INS-
PN
CAT

QIP No.
XXX-110

QIP
SUB-
MISSIO
N
SCHED
ULE

QIP
APPL
SCHE
DULE

PROPOSED
SUB SUPPLIER

PLACE

SS
APPL
STAT
US /
CAT

SS
DETAIL
SUB-
SCHED
ULE

SS
APPL
SCHED
ULE

REMARKS

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JOURNAL BEARING
(BFP AND BP)

III

YAMATO METAL

JAPAN

N

BHEL/MHI
APPROVED SUB-

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