

Project:	PATRATU	3x800	MW	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL				DOC. NO. :	CS-9585-001-2	
Package:	EPC							REV. NO. :		
Supplier:	BHEL							DATE:	05.04.2017	
Contract No.:	CS-9585-001-2					STEAM GENERATOR/RAW SUB-SYS MATERIALS				
S.No.	ITEM	QP/Insp. Cat.	QP No.	QP Sub-Schedule	QP approval schedule	Proposed sub-supplier	Place	Suppliers approval status/ category	supplier Details submission schedule	Remarks
1	SEAMLESS TUBES	\$				TUBOS REUNIDOS	SPAIN	A		CS,T-11,T-12,22,T-23,T-91
		\$				VALLOREC & MANNESMANN	GERMANY	A		T-92,T-91,T-23,T-22,T-11,T-12,CS
		\$				VALLOREC TUBES	FRANCE	A		T-92,T-91,T-23,T-22,T-11,T-12,CS
		\$				TENNARIS GLOBAL(NKK TUBES)	JAPAN	A		T-91,T-22,T-11,T-12,CS
		\$				HENGYANG VALIN STEEL TUBE CO.	CHINA	A		CS & AS UPTO T-22(with TPI INSPECTION) SUB TO CONDITIONS
		\$				TENNARIS GLOBAL(DALMIN ITALY)	ITALY	A		T-22,T-11,T-12,CS
		\$				JINAGSU CHENGDE STEEL TUBE	CHINA	A		T-92,T-91,T-22,T-11,T-12,CS SUB TO TPIA INSPECTION CONDITIONS
		\$				JEE(KAWASAKI)	JAPAN	A		T-92,T-91,T-22,T-11,T-12,CS
		\$				TENNARIS GLOBAL(SILCO, ROMANIA)	ROMANIA	A		CS,T-11,T-22,T-23,T-91,T-12,
		\$				CHANGZHOU CHANGBAO PRECISION	CHINA	A		CS
		\$				PRODUCTUS TUBLARES	SPAIN	A		T-91,T-22,T-11,T-12,CS
		\$				SUMITOMO METALS	JAPAN	A		T-92,T-91,T-23,T-22,T-11,T-12,CS
		\$				BENTLER	GERMANY	A		T-92,T-91,T-22,T-11,T-12,CS,SS
		\$				IBF	ITALY	A		T-91,T-22,T-11,T-12,CS
		\$				WAYMAN GORDAN	USA	A		T-91,T-22,T-11,T-12,CS,
		\$				BHEL SSTP	TRICHY	A		T-22,T-11,T-12,CS
		\$				JINDAL SAW LTD.	NASHIK	A		CS,T-11,T-22,T-12,SUB TO CONDITIONS
		\$				REMI	INDIA	A		CS,T-11,T-22,T-12,SUB TO CONDITIONS
		\$				ISMT	AHMEDNAGAR/BARAMATI	A		CS,T-11,T-22,T-12,SUB TO CONDITIONS
		\$				MSL	RAJGAD	A		CS SUB TO CONDITIONS
		\$				BAOSHAN IRON & STEEL CO. LTD.	CHINA	A		CS,T-11,T-22,T-12,( WITH TP1) SUBJECT TO CONDITIONS



*Sakthi Ganesh*  
05-04-2017  
A. SAKTHI GANESH  
Engineer - QA/BHEL-Trichy

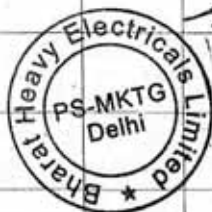
*Amuram-01*

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	Supplier:	BHEL								
	Contract No.:	CS-9585-001-2				STEAM GENERATOR/RAW				
					SUB-SYS	MATERIALS				
	ITEM					Proposed sub-supplier		Suppliers approval status/ category	supplier Details submission schedule	
S.No.		QP/Insp. Cat.	QP No.	QP Sub-Schedule	QP approval schedule		Place			Remarks
		\$				HMT	GUJARAT	A		HOT FINISHED CS GRADE (UPTO 76.2 MM OD & 12 MM THK)
		\$				CHANGZHOU CHANGBAO PRECISION	CHINA	A		T-11,12
2	SEAMLESS TUBES(RIFLED)	\$				SALZGITTER MANESS/AMANN PRECISION	FRANCE	A		CS
		\$				CHANGHOU CHANGBAO PRECISION	CHINA	A		T-11,12
		\$				BAOSHAN STEEL	CHINA	DR		
		\$				TENNARIS GLOBAL(DALMINE)	ITALY	DR		
		\$				SUMITOMO	JAPAN	DR		
		\$				TUBOS REUNIDOS	SPAIN	DR		
3	SEAMLESS TUBES(SS)	\$				KOBE	JAPAN	A		SS 304,SS347H
		\$				POSCO SPL STEEL CO	KOREA	A		SS 304,347H,SUPER 304
		\$				TUBACEX	SPAIN	A		
		\$				SMST	ITALY	A		SS 304,347H, SUPER 304
	SEAMLESS TUBES(SS)UPTO DIA<76.1MM	\$				SUMITOMO METAL IND LTD.	JAPAN	A		SS 304,347H, SUPER 304
	SEAMLESS TUBES(SS) UPTO OD 159.0MM & WT-12.5MM	\$				HUADI STEEL GROUP	CHINA	A		SS 304, 304H,347H( WITH TPI) SUB TO CONDITIONS
	SEAMLESS TUBES(SS) UPTO OD 159.0MM & WT-12.5MM	\$				ZHEJIANG JIULI HI TECH	CHINA	A		SS 304, 304H,347H( WITH TPI) SUB TO CONDITIONS
						PRODUCTUS TUBLARES	SPAIN	DR		
4	SEAMLESS PIPES	\$				TUBACEX	SPAIN	A		SS PIPES
		\$				SUMITOMO METALS	JAPAN	A		P-92,P-91,P-22,P-11,P-12,CS
		\$				VALLOREC TUBES	FRANCE	A		P-92,P-91,P-22,P-11,P-12,CS



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Contract No.:		CS-9585-001-2			STEAM GENERATOR/RAW SUB-SYS MATERIALS					
ITEM					QP	Proposed sub-supplier		Suppliers	supplier	
S.No.		QP/Insp. Cat.	QP No.	QP Sub-Schedule	approval schedule		Place	approval status/ category	Details submission schedule	Remarks
		\$				HENGYANG VALIN STEEL TUBE COL	CHINA	A		CS
		\$				BHEL SSTP	TRICHY	A		CS
		\$				TUBOS REUNIDOS	SPAIN	A		P-91,P-22,P-11,P-12,CS
		\$				VALCONVY TRUB	CZECH REP	A		CS,P-11,P-12,P-22
		\$				ACELOR MITTAL	ROMANIA	A		CS
		\$				WAYMAN GORDAN	USA	A		P-91,P-22,P-11,P-12,CS
		\$				TENNARIS GLOBAL(NKK TUBES)	JAPAN	A		P-91,P-22,P-11,P-12,CS
		\$				IBF SPA	ITALY	A		P-92,P-91,P-22,P-11P-12,CS
		\$				JFE(KAWASAKI)	JAPAN	A		P-92,P-91,P-22,P-11,P-12,CS
		\$				PRODUCTUS TUBLARES	SPAIN	A		P-91,P-22,P-11P-12,CS
		\$				VALLOREC & MANNESMANN	GERMANY	A		P-92,P-91,P-22,P-11,P-12,CS
		\$				TENNARIS GLOBAL(DALMINE)	ITALY	A		P-91,P-22,P-11,P-12,CS
		\$				JINDAL SAW LTD.	NASHIK	A		CS,P-11,P-22,P-12,SUB TO CONDITIONS
		\$				ISMT	AHMEDANAGAR/BARAMATI	A		CS,P-11,P-22,P-12, SUB TO CONDITIONS
		\$				YANGZHOU CHENGDE STEEL PIPE CO. LTD.	CHINA	A		P-92,P-91,P-22,P-11,P-12,CS SUB TO TPIA INSPECTION CONDITIONS
		\$				MSL	RAJGAD	A		CS SUB TO CONDITIONS
		\$				REMI	BHARUCH	A		CS,P-11,P-22,P-12,SUB TO CONDITIONS
		\$				RATNAMANI	MUMBAI	DR		CS
		\$				ZIZIANG GROSS	CHINA	DR		CS
		\$				PRODUCTUS TUBLARES	SPAIN	DR		FOR P92 GRADE
	SEAMLESS PIPES(DIA UPTO 159MM)	\$				TENNARIS GLOBAL SILCO TUBES)	ROMANIA	A		P-91,P-22,P-11,P-12,CS
	SEAMLESS PIPES(UPTO 160MM)	\$				BENTLER	GERMANY	A		P-92,P-91,P-22,P-11,P-12,CS
	SEAMLESS PIPES(UPTO 219.0MM)	\$				JIANGSU CHENGDE STEEL TUBE	CHINA	A		P-92,P-91,P-22,P-11,P-12,CS SUB TO TPIA INSPECTION CONDITIONS

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Supplier:		BHEL								
Contract No.:		CS-9585-001-2			STEAM GENERATOR/RAW SUB-SYS MATERIALS					
S.No.	ITEM	QP/Insp. Cat.	QP No.	QP Sub-Schedule	QP approval schedule	Proposed sub-supplier	Place	Suppliers approval status/ category	supplier Details submission schedule	Remarks
	SEAMLESS PIPES(UPTO 68.9MM)	\$				BAOSHAN IRON & STEEL CO. LTD.	CHINA	A		CS SUBJECT TO CONDITION
	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	A		CS-SA515 AS UP TO GR-91
		\$				ILSENBURGER GROBBLECH(SALZGITTER MANESSMANN)	GERMANY	A		CS-SA 299, SA515, BS EN 10025, IS 2062 OTHER STRUCTURAL STEEL GRADES; AS UPTO GR.-91
		\$				DILLINGER-GTSVENTES	GERMANY	A		CS-SA 299, SA515, BS EN 10025, A36, IS 2062 OTHER STRUCTURAL STEEL GRADES; AS UPTO GR.-91
		\$				ARCONI D.O.O.	SLOVENIA	A		CS- SA515, BS EN 10025, A36, IS 2062 OTHER STRUCTURAL STEEL GRADES; AS UPTO GR.-91
6	PLATES & ROLLED SECTION(UPTO GRADE 22)	\$				THYSEEN KRUPP	GERMANY	A		CS- SA515 BS EN 10025 A36 IS 2062 OTHER STRUCTURAL STEEL GRADES. AS UPTO GR.-22
		\$				INDUSTEEL LOIRE	FRANCE	A		CS-SA 299, SA515; AS UPTO GR.-22
		\$				ESSAR STEEL LTD.	HAZIRA	A		CS- SA515, BS EN 10025, A36, IS 2062, OTHER STRUCTURAL STEEL GRADES; AS GR.-12 & 22
		\$				VOESTALPINE GROBBLECH GMBH	AUSTRIA	A		CS- SA515 BS EN 10025 A36 IS 2062 OTHER STRUCTURAL STEEL GRADES; AS UPTO GR.-22.
		\$				SAIL	BHILAI/SALEM	A		CS- SA515 BS EN 10025 A36 IS 2062 OTHER STRUCTURAL STEEL GRADES; AS UPTO GR.-22.
		\$				NIPPON STEEL	JAPAN	A		CS- SA515 BS EN 10025 A36 IS 2062 OTHER STRUCTURAL STEEL GRADES; AS UPTO GR.-22.
		\$				POSCO	KOREA	A		CS- SA515 BS EN 10025 A36 IS 2062 OTHER STRUCTURAL STEEL GRADES; AS UPTO GR.-22.



*Signature*  
06-04-2017



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		\$				REINER BRACH GMBH & CO.	GERMANY	A		CS- SA 209 SA515 BS EN 10025 A36 IS 2082 OTHER STRUCTURAL STEEL GRADES; AS UPTO GR.-22.
		\$				JFE	JAPAN	DR		
		\$				CLABECO	BELGIUM	DR		
		\$				JSPL	INDIA	DR		
		\$				DUFERCO	GERMANY	DR		
		\$				GULDE	GERMANY	A		MEMBRANE FINS UPTO GR-22
		\$				ARCELLOR MITTAL	ROMANIA	DR		
		\$				METAL ONE	JAPAN	DR		MEMBRANE FINS UPTO GR-12
		\$				LLYODS STEEL INDUS LTD(UTTAM VALUE STEEL)	INDIA	A		UPTO GR.-22; SUBJECT TO CONDITION
7	PLATES & ROLLED SECTION(CS)	\$				ARCELLOR MITTAL GALATI	ROMANIA	A		CS PLATES UPTO 80 MM
		\$				JSW STEEL LTD.	INDIA	A		STRUCTURAL STEEL
		\$				RINL	INDIA	A		STRUCTURAL STEEL
		\$				ESSAR STEEL LTD.	INDIA	A		STRUCTURAL STEEL
		\$				TISCO	INDIA	A		STRUCTURAL STEEL
		\$				LLYODS STEEL INDUS LTD(UTTAM VALUE STEEL)	INDIA	A		STRUCTURAL STEEL
		\$				ISPAT INDUSTRIES LTD.	INDIA	A		STRUCTURAL STEEL
		\$				JSPL	INDIA	A		STRUCTURAL STEEL
		\$				SAIL	INDIA	A		STRUCTURAL STEEL
8	PLATES(SS)	\$				OUTOKUMPU	SWEDEN	A		SS PLATES UPTO 20 MM THK
		\$				INDUS STEEL	BELGIUM	A		GR-304,309,310,316



*Sahilgand*  
06-04-2017

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				SUB-SYS						
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	\$					JSL STAINLESS	JAIPUR	A		LINER SS 304
	\$					INDUSTEEL LOIRE	FRANCE	A		GR-304,309,310,316
	\$					SAIL	BHILAI/SALEM	A		GR-304,309,310,317
	\$					COLUMBUS STAINLESS STEEL(ACRINOX)	SOUTH AFRICA	A		GR-304,309,310,318
	\$					NIPPON STEEL CORP.	JAPAN	DR		
	\$					THYSEEN KRUPP	GERMANY	DR		
	\$					SUMITOMO	JAPAN	DR		
	\$					ACRONI SLOVENIS	JAPAN	DR		
	\$					DKC	KOREA	DR		
9	ALUMINIUM CLADDING	III				MAIN CONTRACTOR'S APPROVED SOURCES				
NOTE 1:	VENDORS UNDER A (ACCEPTED CATEGORY) ARE APPROVED AND ACCEPTED BY NTPC IN PAST WITH OR WITHOUT CONDITIONS. SIMILAR CONDITIONS AS THE CASE MAY BE SHALL BE APPLICABLE FOR THIS PROJECT ALSO.									
NOTE 2:	VENDORS UNDER DR (DETAILS REQUIRED) CATEGORY SHALL BE REQUIRED TO SUBMIT THE DETAILS IN NTPC QUESTIONNAIRE.									
NOTE 3:	PRE DESPATCH INSPECTION FOR ALLOY/SS GRADES NEEDS TO BE TIED UP BY MAIN CONTRACTOR OR THIRD PARTY INSPECTION AGENCY AS REQUIRED.									
NOTE 4:	(\$) REVIEW OF MILL TC FOR RAW MATERIAL TO BE DONE BY NTPC AND SHALL BE INCLUDED IN THE QP OF CORRESPONDING EQUIPMENT.									



*Salunigunb*  
06-04-2017