

VENDOR DRAWING / DOCUMENT TRANSMITTAL

Project : BHUSAWAL TPS
 1 X 660 MW UNIT-6
 Fire protection & detection
Transmittal No : 18V06-M62-LOT-BHEL-0136

Package : system
Date : 7th February 2019

BHEL
 Power Sector-PMG,
 Advant Navis Business Park
 Noida-201305
 Tel: 0120-6748346
 Mobile: +919540690700
 E-mail: pmgakhakur@bhel.in

Kind Attn : Mr. A K Thakur

Dear Sir,

Following drawings/documents (uploaded on PEDM on 19th, 25th & 29th Jan 2019)are attached with action/code status as under :

Sl. No.	DWG/DOC. No.	Rev.	TITLE	CATEGORY	CODE
1.	HYDD_QA_141_660_TUA_M001	0	Manufacturing Quality plan - Drive Turbine -BFPDT (CAT 1)	A	2
2.	HYDD_QA_141_660_TUA_M002	0	Manufacturing Quality plan - HP Heater (CAT 1)	A	2
3.	HYDD_QA_141_660_TUA_M003	0	Manufacturing Quality plan - External De-Super Heater Of HPH(CAT 1)	A	2
4.	HYDD_QA_141_660_TUA_M004	0	Manufacturing Quality plan - LP Heater (CAT 2)	A	2
5.	HYDD_QA_141_660_TUA_M005	0	Manufacturing Quality plan – Deaerator (CAT 1)	A	2
6.	HYDD_QA_141_660_TUA_M006	0	Manufacturing Quality plan - Drain Cooler (CAT 1)	A	2
7.	HYDD_QA_141_660_TUA_M007	0	Manufacturing Quality plan - Lub Oil System – BFPDT (CAT 1)	A	2
8.	HYDD_QA_141_660_TUA_M008	0	Manufacturing Quality plan – BFPDT Lube Oil Cooler (CAT 1)	A	2
9.	HYDD_QA_141_660_BLA_M001	0	Manufacturing Quality plan - Mill Side Assembly (CAT 1)	A	2
10.	HYDD_QA_141_660_BLA_M002	0	Manufacturing Quality plan - Separator Body Assembly (CAT 1)	A	2
11.	HYDD_QA_141_660_BLA_M003	0	Manufacturing Quality plan - Bowl Hub And Vane Wheel Assembly(CAT 1)	A	2

12.	HYDD_QA_141_660_BLA_M004	0	Manufacturing Quality Plan - Separator Top Assembly (CAT 1)	A	2
13.	HYDD_QA_141_660_BLA_M005	0	Manufacturing Quality Plan - Planetary Gearbox Assembly (CAT 1)	A	2
14.	HYDD_QA_141_660_BLA_M006	0	Manufacturing Quality Plan - Journal Head Assembly (CAT 2)	A	1
15.	HYDD_QA_141_660_BLA_M007	0	Manufacturing Quality Plan - Lube Oil System For Mills (CAT 2)	A	1
16.	HYDD_QA_141_660_BLA_M008	0	Manufacturing Quality Plan - Journal Opening Cover Assembly (CAT 2)	A	1
17.	HYDD_QA_141_660_BLA_M009	0	Manufacturing Quality Plan - Journal Shaft Assembly (CAT 2)	A	1

CODE LEGEND	CATEGORY LEGEND	COMMENT :
1. Approved. 2. Approved subject to compliance to comments, proceed with manufacturing/construction. Revised document required to be submitted after incorporating the comments. 3. Not approved. Resubmission required. 4. For information only V. Null & Void (Not applicable)	A : Approval I : Information	-

Note: The recipient is responsible for segregation and destruction of superseded issues.
Action Status as above does not absolve the Vendor/Contractor of his responsibilities of complying with the Technical Specifications and Contractual requirements.

Very truly yours,

Pramod G Tryambake
Project Manager

DEVELOPMENT CONSULTANTS PRIVATE LIMITED

OWNER



MAHARASHTRA STATE POWER GENERATION CO. LTD.

CONSULTANT

PROJECT

1x660 MW BHUSAWAL TPS UNIT- 6

CONTRACTOR

वी एच ई एम

BHARAT HEAVY ELECTRICALS LTD
AM HYDERABADDEPT
CODE

QA

NAME

SIGN

DATE

DRN

MLR

DESN

MLR

CHD

DSS

APPD

DSS

TITLI

DEVELOPMENT CONSULTANT PVT. LTD.
Reviewed only for general conformance with
contract drawings and specifications;
Contractor to be responsible for any error
and for fulfilment of details requirements of
contract documents.

CODE:- 1 DATE:- 07-02-2019

DISTRIBUTED BY:- PRAMOD TRYAMBAKE

1	Approved	4	For information only
2	Approved Subject to compliance to comments. Proceed with manufacturing/construction. Revised document required to be submitted after incorporating the comments.	V	Null and Void (Not applicable)
3	Not Approved. Resubmission required		

SEE COVERING LETTER

LETTER REF.NO.:- 18V06-M62-LOT-BHEL-0136

or JOURNAL OPENING COVER ASSEMBLY

TUA

SCALE

DOCUMENT NO.

I




L


HYD_QA_141_660_BLA_M008



SHEET

OF

REV.00

SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	*D	AGENCY			REMARKS
										M	B	C	
 MANUFACTURER'S NAME & ADDRESS: BHEL HYDERABAD		MANUFACTURING QUALITY PLAN				PROJECT: 1X660 MW MAHAGENCO, BHUSAWAL, UNIT-6 BHUSAWAL, JALGAON DISTT. PACKAGE: SG PACKAGE, CONTRACTOR: BHEL SALE ORDER: MPA1050051 WO: 1074321000 To 1074321700 (08 NO'S) CONSULTANT : LATER							
		ITEM : JOURNAL OPENING COVER ASSEMBLY (HP1103 DC)	QP NO. HYQA/MQP/JOC/505/776		REV.00				DATE : 14-05-2018		PAGE 1 OF 4		
1.0.0	RAW MATERIALS												
1.1.0	JOURNAL OPENING COVER PLATES												
1.1.1	At Suppliers Works	Chemical & Carbon Equivalent	Major	Chem.	TP/Heat	AA10119	AA10119	Mfr. TC	✓	P			
		Mech. Properties	Major	Mech.	TP/Heat	AA10119	AA10119	Mfr. TC	✓	P			
		Bend Test	Major	Bend	TP/Heat	AA10119	AA10119	Mfr. TC	✓	P			
		Check for lamination by UT (for Plates above 40 mm thickness)	Major	UT	100%	ASTM A435	ASTM A435	Mfr. TC	✓	P			
1.1.2	At BHEL	Verification of TC for Plates above 40mm thick	Major	Verify	100%	Spec / Drg.	Spec / Drg.	Report			V	V	Note 1
1.2.0	JOURNAL PRESSURE SPRING												
1.2.1	At Suppliers Works	Chemical	Major	Lab. Test	TP/Heat	BA75019/02	BA75019/02	Mfr. TC	✓	P			
LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER'S CONSULTANT / CUSTOMER NOMINATED INSPECTION AGENCY P: PERFORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.						PREPARED BY  M.LAXMI RAJAM DY MAANAGER / QA		REVIEWED & APPROVED BY  D S SATPUTE AGM / QA		APPROVED BY: CUSTOMER / CONSULTANT			
FORMAT NO. : HYQA/QP/MQP-1 REV.00													



SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	*D	AGENCY			REMARKS		
										M	B	C			
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ITEM : JOURNAL OPENING COVER ASSEMBLY (HP1103 DC)			QP NO. HYQA/MQP/JOC/505/776			REV.00			DATE : 14-05-2018			PAGE 2 OF 4			
1.2.2	At BHEL	Verification of TC's	Major	Review	100%	Spec / Drg.	Spec / Drg.	Report			V	V			
2.0.0	IN-PROCESS CONTROL														
2.1.0	Machining of JOC assembly	Dimensional Examination	Major	Measrt.	100%	Drg	Drg	Log Sheet	✓	P	W	V			
3.0.0	FINAL INSPECTION & DISPATCH														


LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER'S CONSULTANT / CUSTOMER NOMINATED INSPECTION AGENCY P: PERFORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.	PREPARED BY  M.LAXMI RAJAM DY MAANAGER / QA	REVIEWED & APPROVED BY  D S SATPUTE AGM / QA	APPROVED BY: CUSTOMER / CONSULTANT
	FORMAT NO. : HYQA/QP/MQP-1 REV.00		

SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	*D	AGENCY			REMARKS
										M	B	C	
3.1.0	Final Inspection & dispatch	Painting	Major	Visual	100%	Approved Painting Schedule	Approved Painting Schedule	Record		P	V	V	
		Preservation	Major	Visual	100%	Spec	Spec	Record		P	V	V	
		Review of Documents	Major	Review	100%	Drg / Spec./ QP	Drg / Spec./ QP	-		P	V	V	

LEGEND :



TP/Heat : Test Piece Per Heat	MPI : Magnetic Particle Inspection	NDE : Non Destructive Examination	SR : Stress Relieving
Mfr. TC : Manufacturer Test Certificate	RT : Radiography test	Drg : Drawing	HT : Heat treatment
LPI : Liquid Penetrant Inspection	UT : Ultrasonic test	BHN : Brinell Hardness Number	Amd. : Amendment
IR : Inspection Report	Hyd : Hydraulic Test	PS : Product Standard	DIR : Dimensional Inspn Report








LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER'S CONSULTANT / CUSTOMER NOMINATED INSPECTION AGENCY P: PERFORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.	PREPARED BY  M.LAXMI RAJAM DY MAANAGER / QA	REVIEWED & APPROVED BY  D S SATPUTE AGM / QA	APPROVED BY: CUSTOMER / CONSULTANT
	FORMAT NO. : HYQA/QP/MQP-1 REV.00		



	MANUFACTURER'S NAME & ADDRESS: BHEL HYDERABAD	MANUFACTURING QUALITY PLAN					PROJECT: 1X660 MW MAHAGENCO, BHUSAWAL, UNIT-6 BHUSAWAL, JALGAON DISTT. PACKAGE: SG PACKAGE, CONTRACTOR: BHEL SALE ORDER: MPA1050051 WO: 1074321000 To 1074321700 (08 NO'S) CONSULTANT : LATER						
		ITEM : JOURNAL OPENING COVER ASSEMBLY (HP1103 DC)	QP NO. HYQA/MQP/JOC/505/776	REV.00	DATE : 14-05-2018							PAGE 4 OF 4	
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	*D	AGENCY			REMARKS
										M	B	C	

NOTES:

- 1) Test Certificates in documentation package for plates 40mm and above thickness.
- 2) All components will be offered with the product standards and drawings corresponding to latest revision as on date of QP approval or subsequent revisions.
- 3) "V" indicated under column "C" for all verification checks and Review of Quality Documentation will be offered for Customer / Customer nominated Inspection Agency review during witness inspection of a particular Mill. However, this should not hold the despatch of items for other mills of the project.
- 4) All the verification stages as identified against customer(C) will be offered during final assembly inspection of a Mill.
- 5) Wherever unspecified, latest revision of drawings/specifications shall be applicable.

<p>LEGEND: M: MANUFACTURER / VENDOR B: BHEL /BHEL NOMMNATED INSPECTION AGENCY, C: CUSTOMER / CUSTOMER'S CONSULTANT / CUSTOMER NOMINATED INSPECTION AGENCY P: PERFORM, W: WITNESS V: VERIFICATION, * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.</p>	<p>PREPARED BY</p> <p style="text-align: center;"></p> <p>M.LAXMI RAJAM DY MAANAGER / QA</p>	<p>REVIEWED & APPROVED BY</p> <p style="text-align: center;"></p> <p>D S SATPUTE AGM / QA</p>	<p>APPROVED BY:</p> <p style="text-align: center;">CUSTOMER / CONSULTANT</p>
FORMAT NO. : HYQA/QP/MQP-1 REV.00			

NTPC DRAWING NO:	9962-001-HY-102-QVM-Q-011	REV.02				
PROJECT	1 X 660 MW PANKI THERMAL POWER EXTENSION PROJECT					
OWNER : 	UTTAR PRADESH RAJYA VIDYUT UTPADAN NIGAM LIMITED.					
REVIEW CONSULTAN 	NTPC LTD. (A GOVERNMENT OF INDIA ENTERPRISE)					
CONSULTANT  Development Consultants Private Limited	DEVELOPMENT CONSULTANTS PRIVATE LIMITED KOLKATA					
EPC CONTRACTOR  Maharatna Company	BHARAT HEAVY ELECTRICALS LTD HPEP , RC PURAM HYDERABAD	DEPT CODE	NAME	SIGN	DATE	
		QA	PREPARED BY	MLR		11.02.2019
			REVIEWED BY	DSS		30.09.2018
			APPROVED BY	DSS		30.09.2018
TITLE						
MQP – JOURNAL OPENING COVER ASSEMBLY						
					DOCUMENT NO.	
					HYQA/BM/JOC/MQP/500/757	

	<p>उत्तर प्रदेश राज्य विद्युत उत्पादन निगम लिमिटेड (उ०प्र० सरकार का उपक्रम) चतुर्थ तल TC 46/V, समाज कल्याण बिल्डिंग, विभूति खंड, गोमती नगर, लखनऊ-226010 CIN-U40101UP1980SGC005065</p>	
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No. 66/UNL/PPMM/SE-IV/Panki Extn.

Dated: 14th December, 2018

**Bharat Heavy Electricals Limited,
BHEL House, Siri Fort
NEW DELHI- 110049**

Kind Attn: Mr. Parth Damor, Sr. Executive/ PS-Mktg.

Subject: Acceptance of 3K vendor for supply of Coal Pulveriser for 1x660 MW Panki Thermal Power Extension Project.

Dear Sir,

This is to inform that after reviewing the documents/ credentials submitted by M/s BHEL of the proposed sub vendor for manufacturing & supply of **Coal Pulveriser** against respective qualifying clause of chapter 04 "Provennes" Volume-II of tender specification. The following vendor is acceptable:-

Vendor Name	Works	Qualifying Clause
Bharat Heavy Electricals Limited	Hyderabad	3.1

Approval of above sub vendors are subject to the following conditions:

- 1)The approved Sub-vendor has to supply only the type of the above equipment(s) for which vendor is qualified.
- 2)Before placing order/award on the above accepted sub vendor, BHEL shall take prior approval of level-3 vendors and finalize QAP requirement for major items/components, to be supplied under Electrostatic Precipitator.
- 3)Manufacturing, Testing and Inspection shall be carried out as per Owner 's approved Manufacturing Quality Plan (MQP), meeting owner's Technical Specifications and data sheet.
- 4)All bought out items/Out sourced equipment/Fabrication shall be procured from UPRVUNL approved Vendors.
- 5) This approval is not to be taken as approval of correction curves also (submitted with the proposal) for Panki project. The curves and other data is project specific which shall be reviewed separately.

The above acceptance is based on the documents submitted by BHEL. If at any later date, it is identified that documents submitted by BHEL are not correct, then this acceptance letter shall be treated as null and void, for which UPRVUNL shall not be responsible.

Thanking you,

Yours sincerely

(S.N. Mishra)

Superintending Engineer, PPMM

No. 66 /PPMM/SE-IV/Panki Extn.


Date: 14-12-2018

Copy to forwarded to the following for kind information and further necessary action:



1. Director (Project & Commercial), UPRVUNL, 8th Floor Shakti Bhavan Extn., 14 Ashok Marg, Lucknow.
2. Chief Engineer (PPMM), UPRVUNL, Gomtinagar, Lucknow.
3. Chief Engineer (Civil-New Projects), UPRVUNL, 7th Floor Shakti Bhavan Extn., 14 Ashok Marg, Lucknow
4. Chief Engineer, Panki TPS, Panki-Kanpur.
5. Sh. I Endigeri, GM (IS), NTPC Limited, A-8A, Noida
6. Sh. Sital Kumar, GM (Project Manager-Panki Consultancy), NTPC Limited, A-8A, Noida.



(S.N. Mishra)

Superintending Engineer, PPMM

		MANUFACTURER'S NAME & ADDRESS: BHEL – HPEP HYDERABAD - 32		MANUFACTURING QUALITY PLAN			PROJECT: UPRVUNL, PANKI THERMAL EXTENSION PROJECT (1x660 MW) PACKAGE: SG PACKAGE CONTRACT NO: CS-9962-001-102 MAIN SUPPLIER: BHEL – HYDERABAD WO: 1074339100 to 1074339800 (08 No's) SALE ORDER : MPA1063051							
												ITEM: JOURNAL OPENING COVER ASSY (HP 1103 MILLS) SUB SYSTEM : BOWL MILLS		QP NO: HYQA/BM/JOC/MQP/500/757 REV NO: 02 DATE: 11-02-2019 PAGE : 1 OF 4
SL NO	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
					M	C/N			M	C	N			
1.	2.	3.	4.	5.	6.		7.	8.	9.	D*	** 10.			11.

1.0.0 MATERIALS													
1.1.0	JOURNAL OPENING COVER PLATES												
1.1.1	At Raw material Supplier Works	Chemical & Carbon Equivalent	Major	Chem.	TP/Heat	AA10119	AA10119	Mfr. TC	✓	P			
		Mech. Properties	Major	Mech.	TP/Heat	AA10119	AA10119	Mfr. TC	✓	P			
		Impact Test	Major	Impact	As per Specn	AA10119	AA10119	Mfr. TC	✓	P			
		Check for lamination by UT (for Plates above 40mm thickness)	Major	UT	100%	ASTM A435	ASTM A435	Mfr. TC	✓	P			
1.1.2	At BHEL	Verification of TC for Plates above 40 mm thick	Major	Verify	100%	Spec / Drg.	Spec / Drg.	Report			V	V	Note 3 & 4
1.2.0	JOURNAL PRESSURE SPRING												



		LEGEND: * RECORDS IDENTIFIED WITH (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION, M-MANUFACTURER / SUB-SUPPLIER, C-MAIN SUPPLIER. N-OWNER QA&I CONSULTANT. INDICATE "P" PERFORM "W" WITNESS AND "V" VERIFICATION AS APPROPRIATE. "CHP" OWNER QA&I CONSULTANT SHALL IDENTIFY IN COLUMN "N" AS "W"		DOC.NO. 9962-001-HY-102-QVM-Q-011 REV.02 CAT - II		
				FOR NTPC USE	REVIEWED BY	APPROVED BY
MANUFACTURER / SUB-SUPPLIER		MAIN SUPPLIER				
SIGNATURE						


	MANUFACTURER'S NAME & ADDRESS: BHEL – HPEP HYDERABAD - 32	MANUFACTURING QUALITY PLAN				PROJECT: UPRVUNL, PANKI THERMAL EXTENSION PROJECT (1x660 MW) PACKAGE: SG PACKAGE CONTRACT NO: CS-9962-001-102 MAIN SUPPLIER: BHEL – HYDERABAD WO: 1074339100 to 1074339800 (08 No's) SALE ORDER : MPA1063051				
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SL NO	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
					M	C/N			M	C	N			
1.	2.	3.	4.	5.	6.		7.	8.	9.	D*	** 10.			11.

1.2.1	At Raw material Supplier Works	Chemical	Major	Lab. Test	TP/Heat		BA75019/02	BA75019/02	Mfr. TC	✓	P			
		Hardness	Major	BHN	10%		BA75019/02	BA75019/02	Mfr. TC	✓	P			
		Load Test	Major	Lab. Test	10%		BA75019/02	BA75019/02	Mfr. TC	✓	P			
		Compression Test	Major	Lab. Test	As per Spec		BA75019/02	BA75019/02	Mfr. TC	✓	P			
		Dimensional Exam	Major	Measrt	10%		BA75019/02	BA75019/02	Mfr. TC		P			
1.2.2	At BHEL	Verification of TC's	Major	Review	100%	100%	Spec / Drg.	Spec / Drg.	Report			V	V	

2.0.0 IN PROCESS CONTORL

		LEGEND: * RECORDS IDENTIFIED WITH (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION, M-MANUFACTURER / SUB-SUPPLIER, C-MAIN SUPPLIER. N-OWNER QA&I CONSULTANT. INDICATE "P" PERFORM "W" WITNESS AND "V" VERIFICATION AS APPROPRIATE. "CHP" OWNER QA&I CONSULTANT SHALL IDENTIFY IN COLUMN "N" AS "W"		DOC.NO. 9962-001-HY-102-QVM-Q-011 REV.02 CAT - II		
MANUFACTURER / SUB-SUPPLIER	MAIN SUPPLIER					
SIGNATURE			FOR NTPC USE	REVIEWED BY	APPROVED BY	APPROVAL SEAL



	MANUFACTURER'S NAME & ADDRESS: BHEL – HPEP HYDERABAD - 32	MANUFACTURING QUALITY PLAN					PROJECT: UPRVUNL, PANKI THERMAL EXTENSION PROJECT (1x660 MW) PACKAGE: SG PACKAGE CONTRACT NO: CS-9962-001-102 MAIN SUPPLIER: BHEL – HYDERABAD WO: 1074339100 to 1074339800 (08 No's) SALE ORDER : MPA1063051				
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SL NO	COMPONENT & OPERATION	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
					M	C/N			M	C	N			
1.	2.	3.	4.	5.	6.		7.	8.	9.	D*	** 10.			11.

2.1.0	Machining of JOC Assembly	Dimensional Exam.	Major	Measrt	100%	100%	Drg	Drg	Log record	✓		P	V	
3.0.0	ASSEMBLY													
3.1.0	Final Inspection & dispatch	Painting	Major	Visual	100%	100%	NTPC Engg. Approved Painting Schedule	NTPC Engg. Approved Painting Schedule	Record			P	V	
		Preservation	Major	Visual	100%	100%	Spn.	Spn.	Record			P	V	
		Review of Documents	Major	Review	100%	100%	Drg / Spec. / QP	Drg / Spec. / QP	-			P	V	

LEGEND:-



NDT : Non Destructive Test	TC : Test Certificate	BHN : Brinell Hardness Number	TP / Heat: Test Piece Per Heat
LPI : Liquid Penetrant Inspection.	IR : Inspection Report	SR : Stress Relieving	Drg : Drawing
MPI : Magnetic Particle Inspection	RT : Radiography test	HT : Heat treatment	PS : Product Standard
UT : Ultrasonic test	Hyd : Hydrostatic Test	DIR : Dimensional Inspection Report	

		LEGEND: * RECORDS IDENTIFIED WITH (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION, M-MANUFACTURER / SUB-SUPPLIER, C-MAIN SUPPLIER. N-OWNER QA&I CONSULTANT. INDICATE "P" PERFORM "W" WITNESS AND "V" VERIFICATION AS APPROPRIATE. "CHP" OWNER QA&I CONSULTANT SHALL IDENTIFY IN COLUMN "N" AS "W"		DOC.NO. 9962-001-HY-102-QVM-Q-011 REV.02 CAT - II		
MANUFACTURER / SUB-SUPPLIER	MAIN SUPPLIER			FOR NTPC USE	REVIEWED BY	APPROVED BY
SIGNATURE						

		MANUFACTURER'S NAME & ADDRESS: BHEL – HPEP HYDERABAD - 32		MANUFACTURING QUALITY PLAN			PROJECT: UPRVUNL, PANKI THERMAL EXTENSION PROJECT (1x660 MW) PACKAGE: SG PACKAGE CONTRACT NO: CS-9962-001-102 MAIN SUPPLIER: BHEL – HYDERABAD WO: 1074339100 to 1074339800 (08 No's) SALE ORDER : MPA1063051							
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					M	C/N			M	D*	M	C	N	
1.	2.	3.	4.	5.	6.		7.	8.	9.	D*	** 10.			11.

NOTES:

- 1) All components will be offered with the product standards and drawings corresponding to latest revision as on date of QP approval or subsequent revisions
- 2) Wherever unspecified, latest revision of drawing/specification shall be applicable
- 3) NTPC, RIO shall carry out random check / surveillance audit for plates above 40 mm thickness
- 4) Test certificates in documentation package for plates above 40 mm thickness
- 5) All Raw material shall meet Panki specification, if applicable

		LEGEND: * RECORDS IDENTIFIED WITH (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION, M-MANUFACTURER / SUB-SUPPLIER, C-MAIN SUPPLIER. N-OWNER QA&I CONSULTANT. INDICATE "P" PERFORM "W" WITNESS AND "V" VERIFICATION AS APPROPRIATE. "CHP" OWNER QA&I CONSULTANT SHALL IDENTIFY IN COLUMN "N" AS "W"					DOC.NO. 9962-001-HY-102-QVM-Q-011 REV.02 CAT - II		
MANUFACTURER / SUB-SUPPLIER	MAIN SUPPLIER				FOR NTPC USE	REVIEWED BY	APPROVED BY	APPROVAL SEAL	
SIGNATURE									