
	<b>CORPORATE QUALITY ASSURANCE/ कॉर्पोरेट गुणवत्ता आश्वासन</b> <b>MAIN CONTRACTOR'S PROPOSAL CUM EVALUATION REPORT</b> <b>मुख्य संविदाकार प्रस्ताव सह मुल्यांकन रिपोर्ट</b>	

<b>Ref No:</b>		<b>Date:</b>	
संदर्भ सं.:		तिथि:	
<b>i.</b>	<b>Main Contractor</b> मुख्य संविदाकार		
<b>ii.</b>	<b>Project</b> परियोजना		
<b>iii.</b>	<b>Package Name</b> पैकेज का नाम	<b>Package No</b> पैकेज सं.	
<b>iv.</b>	<b>Proposed Item/Scope of Sub-contracting</b> उप-संविदा(अनुबंध) का प्रस्तावित मद/ दायरा		
<b>v.</b>	<b>Item covered under</b> निम्नलिखित के अंतर्गत शामिल मद	<b>Schedule-1</b> /अनुसूची- 1	<b>As per contract clause No-</b> अनुबंध के अनुसार खंड सं.--
		<b>Schedule-2 अनुसूची- -2</b>	
<b>vi.</b>	If item is Schedule-1 and proposed sub-vendor is indigenous, Main Contractor to explain how the contractual provisions will be fulfilled  /यदि मद अनुसूची -1 है और प्रस्तावित उप-विक्रेता स्वदेशी है, तो मुख्य संविदाकार को स्पष्ट करना होगा कि संविदा/अनुबंध के प्रावधान कैसे पूरे किए जाएंगे		
<b>vii.</b>	<b>Name and Address of the proposed Sub-vendor's works</b> /प्रस्तावित सब-वेंडर का नाम तथा पता		
<b>viii.</b>	<b>PO placement date/ Start of manufacturing (if self-manufactured) as per L2 network</b> <b>पीओ नियोजन की तिथि / एल- 2 नेटवर्क के अनुसार विनिर्माण (यदि स्व-निर्मित है) की शुरुआत</b>		
<b>ix.</b>	<b>Item Description</b> (Type/Size/Rating/Scope of Sub-Contracting) मद का विवरण (प्रकार / आकार / रेटिंग / उप-अनुबंध का दायरा)	<b>Total quantity of proposed item envisaged in this package (Nos/ Running Meters/ Kgs/ Tons etc)</b> इस पैकेज में परिकल्पित प्रस्तावित मद की कुल मात्रा (संख्या / क्रियाशील मीटर / किलोग्राम / टन आदि)	<b>Quantity proposed to be procured from proposed sub-vendor (Nos/ Running Meters /Kgs /Tons etc)</b> प्रस्तावित उप-विक्रेता (संख्या / क्रियाशील मीटर / किलोग्राम / टन आदि) से खरीदी जाने वाली मात्रा
			<b>Timeline for quantity requirements as per project schedule &amp; whether the proposed Sub-vendor equipped with adequate capacity to supply proposed order quantity in time</b> / परियोजना समय सूची के अनुसार मात्रा आवश्यकताओं के लिए समय-सीमा और क्या प्रस्तावित उप-विक्रेता समय पर प्रस्तावित मांग की मात्रा की आपूर्ति करने में पूरी तरह से सक्षम है
<b>x.</b>	<b>Supply experience of the proposed sub-vendor (including supplies to Main Contractor, if any) for similar item/scope of sub-contracting, for last 3 years (Note:- Only relevant experience details w.r.t. proposed item/scope of subcontracting to be brought out here)</b> पिछले 3 वर्षों के लिए उप-अनुबंध के समान मद / दायरे के लिए प्रस्तावित सब-वेंडर (मुख्य संविदाकार हेतु आपूर्ति, यदि कोई हो, सहित) का आपूर्ति अनुभव (नोट: - उप-अनुबंध के प्रस्तावित मद / दायरे के संबंध में केवल प्रासंगिक अनुभव के विवरण का उल्लेख हो)		


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Project/Package परियोजना/पैकेज	Customer Name ग्राहक का नाम	Supplied Item (Type/Rating/Model /Capacity/Size etc) आपूर्ति मद् (प्रकार/रेटिंग /मॉडल /क्षमता/आकार आदि)	PO ref no/date पीओ संदर्भ सं. /तिथि	Supplied Quantity आपूर्ति की मात्रा	Date of Supply आपूर्ति की तिथि
<p><i>We confirm that as per our physical assessment, the proposed sub-vendor has requisite capabilities &amp; supply experience and is suitable for supplying the proposed item/scope of sub-contracting/हम अपने भौतिक आकलन के अनुसार इस बात की पुष्टि करते हैं कि, प्रस्तावित उप-विक्रेता के पास अपेक्षित क्षमता और आपूर्ति करने का अनुभव है और उप-अनुबंध के दायरे /प्रस्तावित मद् की आपूर्ति के लिए उपयुक्त है।</i></p> <p><b>Pl. refer the attached the Physical assessment report.</b>  <b>कृपया संलग्न भौतिक आकलन रिपोर्ट देखें।</b></p>					
Name: नाम:	Desig: पद:	Contact No: दूरभाष सं.:	Sign: हस्ताक्षर:	Date: तिथि:	


*Company's Seal/Stamp:-* कंपनी का मुहर:-

**CORPORATE QUALITY ASSURANCE/ कॉर्पोरेट गुणवत्ता आश्वासन**  
**SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली**

<b>I.</b>	<b>Item/Scope of Sub-contracting</b> उप-संविदा(अनुबंध) का मद/ दायरा			
<b>II.</b>	<b>Address of the registered office</b> पंजीकृत कार्यालय का पता	<b>Details of Contact Person</b> संपर्क व्यक्ति का विवरण (Name, Designation, Mobile, Email) (नाम, पदनाम, मोबाइल, ईमेल)		
<b>III.</b>	<b>Name and Address of the proposed Sub-vendor's works where item is being manufactured</b> प्रस्तावित उप-विक्रेता के कार्यों का नाम और पता, जहां मद का निर्माण किया जा रहा है	<b>Details of Contact Person:</b> संपर्क व्यक्ति का विवरण (Name, Designation, Mobile, Email) (नाम, पदनाम, मोबाइल, ईमेल)		
<b>IV.</b>	<b>Annual Production Capacity for proposed item/scope of sub-contracting</b> उप-संविदा(अनुबंध) के प्रस्तावित मद / दायरे के लिए वार्षिक उत्पादन क्षमता			
<b>V.</b>	<b>Annual production for last 3 years for proposed item/scope of sub-contracting</b> उप-संविदा(अनुबंध) के प्रस्तावित मद / दायरे के लिए पिछले 3 वर्षों का वार्षिक उत्पादन			
<b>VI.</b>	<b>Details of proposed works</b> प्रस्तावित कार्यों का विवरण			
1.	<b>Year of establishment of present works</b> वर्तमान फैक्टरी की स्थापना का वर्ष			
2.	<b>Year of commencement of manufacturing at above works</b> उपरोक्त फैक्टरी में निर्माण कार्य शुरू होने का वर्ष			
3.	<b>Details of change in Works address in past (if any)</b> पूर्व में फैक्टरी स्थल में परिवर्तन का विवरण (यदि कोई हो)			
4.	<b>Total Area</b> कुल क्षेत्र			
	<b>Covered Area</b> शामिल क्षेत्र			
5.	<b>Factory License/Registration Certificate</b> (as applicable) फैक्टरी लाइसेंस/ पंजीकरण प्रमाण पत्र	<b>Details attached at Annexure – F2.1</b> विवरण अनुलग्नक- एफ 2.1 पर संलग्न है		
6.	<b>Design/ Research &amp; development set-up</b> डिजाइन / अनुसंधान और विकास सेटअप (No. of manpower, their qualification, machines & tools employed etc.) (श्रमिकों की संख्या, उनकी योग्यता, मशीन और उपलब्ध उपकरण आदि)	<b>Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design</b> <b>Details attached at Annexure – F2.2</b> (if applicable) लागू / लागू नहीं, अगर विनिर्माण मुख्य संविदाकार / खरीददार के डिजाइन के अनुसार है) विवरण अनुलग्नक –एफ 2.2 पर संलग्न है । (यदि लागू हो)		
7.	<b>Overall organization Chart with Manpower Details</b> (Design/Manufacturing/Quality etc) मैनपावर विवरण के साथ समग्र संगठन का चार्ट( डिजाइन / विनिर्माण / गुणवत्ता आदि )	<b>Details attached at Annexure – F2.3</b> विवरण अनुलग्नक – F2.3 में संलग्न है ।		

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	<b>SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली</b>	

8.	<i>After sales service set up in India, in case of foreign sub-vendor(Location, Contact Person, Contact details etc.)</i> भारत में बिक्री सेवा की स्थापना के बाद, विदेशी उप-विक्रेता के मामले में( स्थल , संपर्क व्यक्ति, संपर्क विवरण आदि)		<i>Applicable / Not applicable</i> लागू / लागू नहीं <i>Details attached at Annexure – F2.4</i> विवरण अनुलग्नक -2.4 पर संलग्न है।			
9.	<i>Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any</i> फ्लोचार्ट सहित विनिर्माण प्रक्रिया निष्पादन योजना , जिसमें आउटसोर्स प्रक्रिया, यदि कोई हो, सहित कच्चे माल से तैयार उत्पाद तक विनिर्माण के विभिन्न चरणों को दर्शाया गया हो,		<i>Details attached at Annexure – F2.5</i> विवरण अनुलग्नक - F2.5में संलग्न है।			
10.	<i>Sources of Raw Material/Major Bought Out Item</i> कच्चे माल के स्रोत / खरीदे हुए मुख्य मद		<i>Details attached at Annexure – F2.6</i> विवरण अनुलग्नक - F2.6में संलग्न है।			
11.	<i>Quality Control exercised during receipt of raw material/BOI, in-process , Final Testing, packing</i> कच्चे माल / खरीदे हुए मद, प्रक्रियाबद्ध, अंतिम परीक्षण, पैकिंग करते समय गुणवत्ता नियंत्रण		<i>Details attached at Annexure – F2.7</i> विवरण अनुलग्नक - F2.7 पर संलग्न है			
12.	<i>Manufacturing facilities (List of machines, special process facilities, material handling etc.)</i> विनिर्माण सुविधा(मशीनों की सूची, विशेष प्रक्रिया सुविधाएं, सामग्री रख-रखाव आदि)		<i>Details attached at Annexure – F2.8</i> विवरण अनुलग्नक - F2.8में संलग्न है।			
13.	<i>Testing facilities (List of testing equipment)</i> परीक्षण सुविधाएं( परीक्षण उपकरण की सूची )		<i>Details attached at Annexure – F2.9</i> विवरण अनुलग्नक – F2. 9 में संलग्न है।			
14.	<i>If manufacturing process involves fabrication then-</i> यदि निर्माण प्रक्रिया में फेब्रिकेशन की गई है तो- <i>List of qualified Welders</i> पात्र वेल्डर की सूची <i>List of qualified NDT personnel with area of specialization</i> विशेषज्ञता के क्षेत्र सहित पात्र एनडीटी कार्मिकों की सूची		<i>Applicable / Not applicable</i> लागू / लागू नहीं <i>Details attached at Annexure – F2.10</i> विवरण अनुलग्नक - F2.10में संलग्न है। <i>(if applicable)</i> लागू / लागू नहीं			
15.	<i>List of out-sourced manufacturing processes with Sub-Vendors' names &amp; addresses</i> सब-वेंडर द्वारा बाह्य स्रोतों (उनके नाम और पते सहित)से करवाएं गए निर्माण प्रक्रियाओं की सूची		<i>Applicable / Not applicable</i> लागू / लागू नहीं <i>Details attached at Annexure. –F2.11</i> विवरण अनुलग्नक - F2.10में संलग्न है। <i>(if applicable)</i> (यदि लागू हो)			
16.	<i>Supply reference list including recent supplies</i> नवीनतम आपूर्ति सहित आपूर्ति संदर्भ सूची		<i>Details attached at Annexure – F2.12</i> विवरण अनुलग्नक - F2.12 में संलग्न है। <i>(as per format given below)</i> ( नीचे दिए गए प्रारूप के अनुसार )			
	<i>Project/ package</i> परियोजना /पैकेज	<i>Customer Name</i> ग्राहक का नाम	<i>Supplied Item (Type/Rating/Model /Capacity/Size etc)</i> आपूर्ति की गई वस्तु (प्रकार / रेटिंग / मॉडल / क्षमता / आकार आदि)	<i>PO ref no/date</i> पीओ संदर्भ सं. / तिथि	<i>Supplied Quantity</i> आपूर्ति की मात्रा	<i>Date of Supply</i> आपूर्ति की तारीख
17.	<i>Product satisfactory performance feedback letter/certificates/End User Feedback</i> उत्पाद के संतोषजनक		<i>Attached at annexure - F2.13</i> अनुलग्नक F2. 3पर संलग्न है			

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	प्रदर्शन संबंधी फीडबैक पत्र / प्रमाण पत्र / अंतिम उपयोगकर्ता फीडबैक	
18.	<b>Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating)</b> प्रस्तावित उत्पाद (एक समान या उच्च रेटिंग वाले) के लिए टाइप टेस्ट रिपोर्ट (टाइप टेस्ट विवरण, रिपोर्ट संख्या, एजेंसी, जांच की तारीख) का सारांश नोट: - रिपोर्ट प्रस्तुत करने की आवश्यकता नहीं है <i>Note:- Reports need not to be submitted</i>	<b>Applicable / Not applicable</b> लागू / लागू नहीं  <b>Details attached at Annexure – F2.14</b> विवरण अनुलग्नक - F2.1 4में संलग्न है <i>(if applicable)</i> (यदि लागू हो)
19.	<b>Statutory / mandatory certification for the proposed product</b> प्रस्तावित उत्पाद के लिए वैधानिक / अनिवार्य प्रमाणीकरण	<b>Applicable / Not applicable</b> लागू / लागू नहीं  <b>Details attached at Annexure – F2.15</b> <i>(if applicable)</i> (यदि लागू हो)
20.	<b>Copy of ISO 9001 certificate</b> आईएसओ 9001 प्रमाण पत्र की प्रति <i>(if available)</i> (यदि उपलब्ध हो)	<b>Attached at Annexure – F2.16</b> अनुलग्नक में संलग्न - F2.1 6 है
21.	<b>Product technical catalogues for proposed item (if available)</b> प्रस्तावित मद के लिए उत्पाद तकनीकी कैटलॉग (यदि उपलब्ध हो)	<b>Details attached at Annexure – F2.17</b> विवरण अनुलग्नक - F2.1 7 में संलग्न है

<b>Name:</b> <b>नाम:</b>		<b>Desig:</b> <b>पद:</b>		<b>Sign:</b> <b>हस्ताक्षर:</b>		<b>Date:</b> <b>तिथि:</b>	
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**Company's Seal/Stamp:- कंपनी की मुहर/ मोहर: -**

***1.0 Sub-Contractors/ Sub-Vendors/ Sub-Suppliers:***

**1.1** Any sub-vendor (in addition to Indicative Vendor List part of bid document) suggested by bidder except the sub-vendor from land border sharing countries shall be treated under DR (Details Required) category, if required. But the number of sub-vendors in DR category shall be decided on mutually agreed basis during post award discussions.

Sub vendor list shall be tied up during detail engineering inclusive A(approved) & DR(Detail required) along with categorization as per prevailing practice of NTPC CQA.

For the approval of any new sub-vendor, please refer clause no.22.17.00. For the proposal of sub-vendors from land border sharing countries, Bidder shall ensure the compliance of GOI circulars and shall submit such sub-vendor proposal to NTPC for review & acceptance. (Please refer GTR clause no 40.00.00).

In addition to above, for certain System/ Items covered in Technical Specifications, where Sub-QR (Qualifying requirements) are specified, bidder shall confirm that firm purchase order to the Sub Vendors selected/ shortlisted by them for these items/ systems, will only be placed after acceptance by NTPC of the concerned Sub Vendors meeting the specified qualifying requirements.

**1.2** For the proposals where status of proposal is in “DR” category (details required), as NTPC does not have any past experience with them in the above mentioned list, Bidder shall furnish the complete details of such proposals, in NTPC Formats, in time bound manner, so as not to impede the progress of the Project/ Works. For details please refer clause no 22.17.00.

**1.3.** Bidder shall furnish the required details, as detailed out above, of the proposed Manufacturer/ Sub-Vendor, along with their own detailed recommendations, in the NTPC-formats. proposals/ details shall be received only up to 3 months prior to ordering date of the concerned item (L-2 Network/ BOI Schedule), for NTPC review and assessment. Bidder may accordingly plan the submissions.

**1.4** Bidder to confirm that the list of Items/ BOI includes all major Items/ BOIs required in their scope of work/ supply. If any Item/ BOI is left out or gets included during detailed engineering, Bidder shall propose the Manufacturers/Sub-Vendors, prior to initiating the procurement action. In such cases also, proposals, with details given above, shall be forwarded in time bound manner, within time limits given above.

**1.5** It is understood that in terms of provisions of Cl. 19.1 of GCC (General Conditions of Contract), in case bidder opts for additional Sub - Vendor proposals, over & above the indicative sub vendor list herein (part of bid document), may be given, within sufficient time, so as not to impede the progress of the work. Accordingly, all such proposals along with required details (as given in 1.3 above), shall be received only up to 3 months prior to ordering date of the concerned item/ Scheduled start of the Manufacture of Self Manufactured Item, for NTPC review and assessment.

**1.6** It is agreed that wherever “Main Contractor approved Sources” have been mentioned in the Indicative Vendor List (part of bid document), Bidder shall submit to NTPC, the copies of unpriced Purchase Order, on the specific Manufacturer, from whom supply is intended to be made, to enable NTPC to plan for Surveillance Audit of the manufacturer, if desired, prior to issue of Dispatch Clearance of the concerned item.

**1.7** Bidder has to furnish System Supplier proposals for various Sub-Systems which are termed as Level-I Vendors. Further, Manufacturer/ Sub-vendor proposals for major items/ components under these systems, are not yet furnished, as the same would

depend on Level-I vendor shortlisted by bidder for such systems. It is agreed that sub vendor proposals for such items/ components (Level-II vendors) shall be made by bidder to NTPC with complete sub vendor details, in such a manner that the proposals can be finalized after award of contract by bidder on Level-I Vendor. It is understood that schedule of such Sub-vendor proposals shall be in accordance with the Project schedule (L-2 Network/ BOI Schedule) taking into consideration the time required for processing sub vendor approvals, by NTPC, enumerated above.

- 1.8 In the Indicative Sub Vendor List (part of the bid document), against each Item/ Sub-Vendor, the Category of Inspection is also indicated. NTPC reserves the right to conduct Surveillance Inspection/ Audit of the material, which are identified in Cat-II/ Cat-III, to verify the effectiveness of Quality System of bidder and conformance of the offered lot, to the applicable Standards/ requirements.

**2.0 Welding:**

Bidder to ensure that they will submit to NTPC, their approved List of Make/ Brand of Electrodes/ Welding Consumables, to be used during welding at Site. (Applicable only for Qualified Steam Generator Manufacturer and Qualified Steam Turbine Generator Manufacturer). For all other areas, the welding consumable for welding work shall be as per NTPC's rationalized list of welding consumable.

- 3.0 Bidder to ensure that for Schedule-I/ Schedule-II supplies, orders shall be placed suitably on approved Sub-Vendors' manufacturing location (Foreign/ Indigenous), keeping the Contractual requirements in view.
- 4.0 Bidder to ensure the requirements of QA Documentation as per GTR clause no.23.00.00 for its completeness and only thereafter submit to NTPC.
- 5.0 Bidder shall furnish duly filled, below mention QA coordination procedure (QACP) during post award.



## **QACP (QA Coordination Procedure)**

### **1. SCOPE OF WORKS:**

- a) **QUALITY ASSURANCE:** Review of main contractor's (and their proposed major sub-contractor's) detailed quality plan (MQP and FQP) including customer hold points for inspection. Review of manufacturer's test /inspection report and test certificates as per approved QP.
- b) **INSPECTION SERVICES:** Witness of stage and final shop inspection /verification of documentation/ performance testing of major equipment as per approved QP and issuance of CHP and MDCC.
- c) **VENDOR/SUB-VENDOR APPROVAL:** Review and approval of major sub-contractors proposed by the Contractor shall be done by Employer QA&I Finalization of inspection category of items being manufactured and supplied by Main Contractor and sub-vendors shall be done by Employer QA&I

### **2. SCOPE OF PROCEDURE:**

- a) The scope of this procedure is to explain and elaborate the scope of work of quality assurance & inspection, during the execution of service between employer (QA & Regional Inspection Offices), and bidder for project
- b) Items not covered in Quality Plan are CAT-III items. Such items & items identified as Cat-III in vendor list, shall be treated as non-inspection items and Certificate of Conformance (COC) shall be submitted to employer (QA & Regional Inspection Offices) for review.

### **3. DOCUMENTATION TO BE PROVIDED BY bidder:**

- a) Master list of items requiring QP and Type test approval: shall be prepared by main contractor and approved by Employer QA&I Approved Drawings, Data-sheet, Specifications, etc. shall be provided to Employer QA&I by bidder for inspection purpose.

### **4. SUBMISSION OF QUALITY PLAN FOR REVIEW, COMMENTS AND APPROVAL:**

- a) Transmittal (In soft) shall indicate the following:
  - i. Name of the item/equipment & QP/Document Number as per master list.
  - ii. Remarks / Special notes along with reference documents and norms.
  - iii. QPs shall be submitted in the prescribed formats of Employer QA&I
- b) All correspondence and submission of Quality Plan, Field Quality Plan and other documents shall be submitted in soft form i.e. Adobe Acrobat file (pdf format) through Dreams 2.0 indicating the identical Name & Number of QP as per 'Master List of Documents' (MDL). Coordinator of Main Contractor shall arrange submission of Master list of QP documents (In Soft – Dreams 2.0) for various equipment, plant & systems to the Employer QA&I coordinator
- c) On review/ comments / approval of QP, QA&I Coordinator shall forward in PDF form (soft) only, to bidder's coordinator in two weeks.
- d) On review of each QP/document shall be categorized in one of the following:
  - i. Category-I Approved
  - ii. Category-II Approved subject to incorporation of comments and to be resubmitted after incorporation of comments.
  - iii. Category-III Disapproved. See comments.



- e) Considering the criticality of the project requirement, all out efforts shall be made to re- submit the QPs/documents as early as possible but not later than 2 (two) weeks from the date of receipt of commented QP/documents from Employer QA&I
- f) For MQPs and FQPs approved in Cat-II, the work can be proceeded subject to taking care of comments furnished on documents. However, these comments will be taken care of by Main Contractor while submitting the revised QP/documents for final approval in Cat-I along with their explanation, if any (highlighting all the changes).
- g) Final inspection & clearance shall only be issued on approved drawings, Data sheets & QP (in Category-I).

5. Field Quality Activity:

- a) The Field Quality Plan for Equipment and Services shall be furnished by Contractor and their Vendors and shall include the quality practices and procedures followed by them during various stages of site activities from transport, receipt of material/equipment storage, preservation, pre-erection, and final erection. The Field Quality Plan shall identify the critical stages where involvement of Contractor's representative is required.
- b) Erection contractors (For boiler, power cycle piping, ESP, TG) are subjected to NTPC QA approval.
- c) Contractor shall submit Field Welding Schedule for site welding activities of pressure parts, pressure vessels, heat exchangers and piping etc. Bidder to ensure that they will submit to NTPC, their approved List of Make/ Brand of Electrodes/ Welding Consumables, to be used during welding at Site. (Applicable only for Qualified Steam Generator Manufacturer and Qualified Steam Turbine Generator Manufacturer). For all other areas, the welding consumable for welding work shall be as per NTPC's rationalized list of welding consumable.

6. COORDINATORS FOR COMMUNICATION:

- a) Bidder's Coordinator, & Employer QA&I Coordinator shall be the focal points for ensuring smooth execution and monitoring of the contract.
- b) Bidder OVER ALL COORDINATOR:

	Main Coordinator	Alternate Coordinator
Name		
Designation		
Address		
Contact No		
Email		

c) Employer QA&I Coordinator:

	Main Coordinator	Alternate Coordinator
Name		
Designation		
Address		
Contact No		
Email		

7. **EMPLOYER QA&I PROGRESS REPORTING:** Bidder's coordinator shall furnish on or before 12<sup>th</sup> of every calendar month progress report, highlighting QA&I activities in the reporting month, which shall contain the summary of QP/ documents submission and approval status for QP/ documents under approval to Employer QA&I Coordinators for information. Major QA&I hold-ups shall be highlighted in the progress report.

8. **CUSTOMER CO-ORDINATION MEETING:**

- a) To resolve and sort out various QA&I matters and outstanding issues structured contract co-ordination meeting (CCM) shall be held periodically as per notice of bidder /Employer QA&I
- b) Bidder may arrange for the participation of his sub-vendors also, if required for the meeting to resolve their respective issues.
- c) The venue for the meeting will be the office of Employer/Bidder as decided on case-to-case basis
- d) Minutes of Meeting (MOM) will be drafted by the agency at whose office the meeting is held and the same will be finalized and signed by all parties before close of the meeting.

9. **CORRESPONDENCE:**

- a) All correspondences related to this project shall be among coordinators of, QA&I & bidder as indicated in point no: 5.0.
- b) **EMPLOYER QA&I CONSULTANT's Regional Inspection Offices:** The list of Inspection Offices along with names and contact / communication details of the Heads of RIOs and the areas of their jurisdiction is placed at. <http://qains.ntpc.co.in/inspection/>

10. **DEVIATION / NON-CONFORMITY DISPOSITIONING:**

- a) If deviations are observed during inspection, same shall be recorded by Employer inspector in the CHP.
- b) Classification of deviations: It would be required to classify a particular deviation as Major or Minor, which shall be done by Employer QA&I applying following criteria:
  - i) **MAJOR Non-conformities:** non-conformity is a "Major" non-conformity which prima-face is likely to have bearing on the Performance, Reliability, Safety, Interchangeability, Maintainability, Working life of the material, equipment or service.
  - ii) **MINOR Non-conformities:** A non-conformity not categorized as 'Major' is considered as "Minor", i.e. deviation is with respect to the applicable drawings/applicable standards.

c) **Dispositioning of Deviation / Non-Conformity:**

i) **MAJOR:**

Any deviation is characterized as "Major", the bidder to submit a justification as to why the same can be accepted with due corrective and preventive action plan. Such justification shall be submitted to the employer/, enabling it (Employer QA&I) to comment on the bidder's justification/proposal for acceptance/rework.

ii) **MINOR:**

Dispositioning of MINOR deviations shall be done by employer QA&I

Complete details of bidder design dispositioning of the deviation shall be sent by bidder to employer QA&I for proceeding further. QA&I would review the bidder design's dispositioning and either proceed further with acceptance decision or return the dispositioning to bidder for reclassifying it as Major for dispositioning by the CQA.

Format for "Non- Conformity Report for Manufacturing & Inspection Stages" is attached at Annexure VIII.

11. **Type Tests (wherever applicable as per specification or approved QPs / Drawings):** Bidder shall ensure that type tests (wherever applicable) are duly approved/accepted by NTPC Engg (Engg

Consultant) before offering such item for inspection as per QP. Evidence of Type Test approval in such cases shall be furnished by bidder, while raising inspection call.

**12. RESPONSIBILITY FOR ISSUING MDCC:**

Employer QA&I shall issue MDCC in case of Cat-I and Cat-II items and for Cat-III items Employer QA&I shall issue MDCC directly based on COC of bidder. MDCC shall be issued after checking of vendor approval status, BBU approval, and Type Test (if applicable).

**13. INSPECTION PROCEDURE:** Inspection shall be carried out as detailed:

For Cat-I & II items: where physical inspection (Cat-I) and documents review (Cat-II) envisaged in approved QP by Employer QA&I:

**a) INDIGENOUS SUPPLIES:**

- For items under inspection Category Cat-I, the concerned Regional Inspection Office under whose jurisdiction the manufacturer is located. Inspecting Engineer or reviewing engineer (in case of waiver of presence of NTPC engineer) shall issue the MDCC/dispatch clearance. In case, only review of Vendor's inspection report / test certificates by NTPC has been envisaged as per approved QP (inspection Category Cat-II), such reports shall be submitted to the concerned NTPC-RIO, in whose jurisdiction manufacturer is located.
- In case where QP has not been envisaged (inspection category III), all such materials shall be cleared on the basis of Certificate of Conformity (COC) in attached format from bidder, which shall be submitted concerned NTPC-RIO, in whose jurisdiction vendor (main contractor) is located.

**b) FOREIGN SUPPLIES:**

- For items (inspection Category Cat-I) directly dispatchable to site from foreign manufacturer, the MDCC/dispatch clearance shall be issued by NTPC's inspecting engineer. In case of waiver of presence of NTPC engineer or Cat-II/III, the MDCC shall be issued by CQA Engineer on satisfactory review of test/inspection reports.

For items to be brought to Bidder's works from foreign manufacturer, before final dispatch to site, MDCC shall be issued by relevant Resident Inspector/RIO after satisfactory activities at works and on review of CHP report of NTPC's Inspecting Engineer for inspection at foreign manufacturer's works or on verifying acceptance report of CQA, in case of waiver of presence of NTPC Engineer for inspection at foreign source.

**NOTE:**

- I. Material inspection by RIO-A at the works of sub-contractor in their respective jurisdiction and dispatched to the works of the other sub-contractor for assembly or otherwise in the jurisdiction of RIO-B before final dispatch to project site, shall be accorded dispatch clearance on a CHP clearance report by RIO-A and the CHP of the completed item / equipment will be issued by RIO-B as per the approved BBU.
- II. In case, only review of Vendor's inspection report / test certificates by Employer QA&I has been envisaged as per approved QP (inspection Category Cat-II), such reports shall be duly reviewed by employer (QA&I) for all documents as per approved QP
- III. In case of items where QP has not been envisaged at all (inspection category Cat-III), such material shall be cleared and MDCC shall be issued by Employer QA&I -RIO/CQA (for foreign supplies) on the basis of Certificate of Conformity.

**14. DOCUMENTATIONS / INPUTS BY Bidder:** Bidder shall ensure availability of duly approved documents / inputs (e.g. Drawings / Data-Sheets, / Type Test Procedures / Type Test Approvals, Quality Plan, Routine Test Procedures, Reference documents Codes, Standards, Specifications and Acceptance norms, etc.) at the place and time of inspection for reference of Inspection Engineers. Master list of Drawings, Datasheet, etc. shall also be made

available.

- a) **THREE MONTHLY ROLLING INSPECTION PLAN** :To facilitate advance planning of inspection of supplies, in addition to giving inspection notice at identified \*CHP stages as per approved QP, Main Contractor Coordinator shall furnish three monthly rolling inspection program every month, indicating schedule dates of inspection at identified CHP stages. Such a program shall be updated each month. Such program shall be confirmed by specific inspection calls in accordance with Clause 12.
- b) **\*Definition of C.H.P.:** CHP “Customer Hold Point” (‘W’) is a stage identified by customer in Quality Plan, which is to be offered to customer or its authorized representative by the Vendors, Supplier / Sub-supplier Contractor for witnessing, verification or review, beyond which work will not proceed without written consent of the Inspecting Authority. The report prepared by the Inspector is called “CHP Report”.  
Above three-monthly rolling inspections plan for Shop manufactured & BOIs shall be furnished directly to the respective Employer QA&I
- c) **INSPECTION AT PACKAGE CONTRACTOR’S SUB-SUPPLIER:** Bidder’s coordinator shall ensure that unpriced purchase order for the identified BOI where in Employer QA&I Inspection is required, as per the approved Quality Plan, the unpriced Purchase Order shall be suitably tied-up with their suppliers so that the suppliers offer the identified equipment for Employer QA&I inspection for identified tests / checks. Purchase Order, with detailed Purchase Specification, Delivery conditions QP & reference codes and standards shall be made available at the place of inspection.
- d) **Inspection Calls:** Bidder shall give inspection call to the respective Employer QA&I RIO in Windsor-X system. For foreign inspection calls Main Contractor shall give inspection call to Employer QA&I (in Windsor-X system) Coordinators and through email as well, as per following schedule:-
- i. Supplier of Indian origin : 15 working days
  - ii. Supplier of Foreign origin : Call will be raised in two stages
  - iii. Preliminary Inspection call : 45 days
  - iv. Final Inspection call : 15 days
- Inspection call format is placed at website <http://qains.ntpc.co.in/inspection/>
- e) **Inspection Call Entry on Employer QA&I Inspection Website on Internet:** Bidder can enter the call to the respective RIO on internet on Employer QA&I inspection website named as <http://qains.ntpc.co.in/inspection/> through a user ID & password under the menu “Main Supplier”. User ID and password has already been known to various Main Contractor units. Bidder will be allotted user ID and password.
- f) **Co-ordination for Inspection Call:**
- Main Contractor shall raise inspection call mentioning all reference documents to the respective Employer QA&I and in Windsor-X system. For foreign inspection calls bidder shall give inspection call to QA&I (in Windsor-X system) Coordinators
  - The list of various Employer QA&I RIOs and their address along with their area of jurisdiction is placed at <http://qains.ntpc.co.in/inspection/> The call shall include copy of relevant approved QP and Data Sheet, internal test / inspection report, as applicable etc.
  - Bidder representative / their authorized TPA (duly accepted to Employer QA&I) shall involve in inspection activity as per agreed documents.

15. **Issue of Final CHP/MDCC/Inspection Report by Employer QA&I:** The concerned Regional Inspection Office under whose jurisdiction the manufacturer is located, shall issue the Final CHP/MDCC after successful completion of testing / shop assembly including stage Inspection /Type tests, as required by the approved documents (approved Quality Plan, drawing / data sheet, as applicable), etc. at manufacturer's/ their sub-vendor's works.

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## **METHODOLOGY FOR SAMPLING FOR TESTING OF WELD JOINTS :**

Whenever the quantum of check in any NDT is other than 100%, the following guidelines for sampling/resampling procedure for NDT to be followed :

1) The group of welds for sampling shall be based on welding done by a welder in specified continuous time (say work done in a shift or in a day). For further analysis, acceptance or rejection, this group shall be treated as an entity.

2) From the above weld group, the selection of weld joint/weld spot shall be done by NTPC as per the quantum of check specified.

3) For acceptance of the weld group, all samples selected in this group should meet the acceptance norms. In case of any sample(s) beyond acceptance norms, the following actions shall be taken:

3.1 : Rectification of defective welds and re-testing of the repair.

3.2 Re-sampling by NTPC from the same group of welds, with quantum of NDT being double the originally specified quantum (with minimum 2 welds for every defective weld). In case of RT on T-joints, if the defect is found on L-seam done at manufacturing works of pipe produced as per IS 3589, pipe defects shall be rectified, and no re-sampling is envisaged.

4) In case of any weld from the re-sample as per 3.2 above found beyond acceptable norms, the following action shall be taken:

4.1) NDT of all welds of the group which were not tested in first and second samples.

4.2) Repair and re-testing of all defective welds.

4.3) Necessary action on process control and on welder for preventing recurrence.

5) For the purpose of sampling, the weld group shall be defined as number of welds in case of smaller diameter of tubes/pipes (or small welds on structures) while for very large diameter pipes e.g., CW piping or for vessels/long welds, the length of weld may be taken as basic unit. Sampling shall also be accordingly in terms of number of weld joints or length of weld.

6) From the time of readiness of weld group, suitable time limits shall be prescribed for first sampling testing, re-sampling, repairing, re-testing etc. (normally not more than 1 day's backlog should be piled up at every step).

Illustration: Radiography of welds: Welding completed on Day-1 should be tested by Day-2 and repair and re-sampling, of the group should be done by Day-3 and further testing/repair should be done by Day-4.

7) Sampling and re-sampling procedure shall be applicable for all NDT viz RT,UT,DPT,MP.

Note: In case of RT of tube welds with double wall image (elliptical view), number of exposures shall be as per relevant code/ plant standard and will not be less than 2 exposures for each weld.







## NON- CONFORMITY REPORT FOR MANUFACTURING & INSPECTION STAGES

FOR NTPC USE ONLY

NC NO. (REFER NOTE 7):

DATE:

PAGE : 2 OF 2

### NOTES

1. Please read these notes carefully before filling up and attach separate sheet wherever required.
2. Category 'A' non-conformity is a major non-conformity which directly or indirectly adversely affects the performance, reliability, safety, interchangeability, erection, commissioning or working life of the items, equipment or system. All other non-conformities shall be treated as category 'B'.
3. Acceptance of dispositioned non-conformity is without prejudice to NTPC rights under the contract to claim commercial compensation and does not absolve main contractor from his contractual obligations.
4. Obtaining approval of statutory authority, if any, w.r.t. above non-conformity is the responsibility of main contractor.
5. Dispositioning of this non-conformity is for this specific case only and not to be regarded as a precedence.
6. The non-conformance shall be proposed main contractor (Give code at appropriate boxes) and is subjected to review & acceptance by NTPC.  
(01) NC-Rejected (02) NC-Conditionally accepted (specify condition) (03) NC-accepted as it is (04) NC-Accepted with repair
7. NC number - this NC no. shall be allotted by regional inspection office in such a way to have project, package, RIO code, followed by running serial no. of that contract.

### Responsibilities of main contractor

1. Ascertain exact nature of non-conformity in consultation with qualified designer (if required) and supporting drawing/details with which non-conformity exists.
2. Identify the cause of non-conformity.
3. Decide on code of Dispositioning as per Note-6 above.
4. Ensure and certify that the product quality, performance, reliability and working life is not affected for minor non-conformities and quantify the extent to which it is affected in the case of category 'A' non-conformities.
5. Implement agreed corrective action in a time-bound program.

### Responsibilities of RIO

1. Identify the product appropriately.
2. Finalize the cause of non-conformity and propose corrective action.
3. Interlink with the corresponding CHP.



