

गुणवत्ता आश्वासन योजना (QUALITY ASSURANCE PLAN) : MODEL

Pag

परियोजना (PROJECT) :

उपस्कर का नाम (NAME OF EQUIPMENT) : EMBEDDED PARTS- SLIDE TYPE/WHEEL

TYPE/HINGED TYPE/RADIAL GATES/STOPLOG (BULKHEAD)

ग्राहक (CLIENT) :

विक्रेता (VENDOR) :

एनआईटी/ क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

MODEL QUALITY ASSURANCE PLAN (MQAP)

SET Special instructions: -

1	Contractors/Manufacturers/Sub-suppliers are advised to submit QAP for equipments/ materials after incorporating all tests for bought out items, in process in and final inspections as per their latest manufacturing practice and Indian/ International Standards (with latest amendments, if any).
2	Contractors/Manufacturers/Sub-suppliers are required to use properly calibrated instruments /equipments during testing/inspection, for which necessary calibration certificates are required to be provided/presented to the Inspecting Officer.
3	Contractors/Manufacturers/Sub-suppliers has to make on their own all arrangements for testing facilities at their works for testing of equipments/materials.
4	One set of complete test certificates as per the requirement of QAP be made available to the Inspecting Officer at the time of inspection/testing.
5	All the records, as per the requirement of QAP are to be made available for review by the Inspecting Officer during inspection.
6	Field tests are to be carried out as per the requirements of the contract / purchase order.

गुणवत्ता आश्वासन योजना (MODEL QUALITY ASSURANCE PLAN) : MODEL

परियोजना (PROJECT) :

उपस्कर का नाम (NAME OF EQUIPMENT) : EMBEDDED PARTS- SLIDE TYPE/WHEEL
TYPE/HINGED TYPE/RADIAL GATES/STOPLOG (BULKHEAD)

ग्राहक (CLIENT) :

विक्रेता (VENDOR) :

एनआईटी / क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

(Sill beam, Seal seats, Wall Plates, Side guides, Track, Anchor rods/ studs etc.- As applicable)

क्र. सं. SR. NO.	मद/घटक एवं विशेषता ITEM /COMPONENTS & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERENCE DOCUMENTS/ ACCEPTANCE NORMS	रिकॉर्ड प्रारूप RECORD FORMAT	निरीक्षण एजेंसी (INSP. AGENCY)		
						प्रदर्शन Perform	गवाह Witness	सत्यापन Verify
1	Raw Material							
1.1	Structural Steel - Steel Plates, Steel Sections like Angles Channel, Beam etc.	Chem. & Mech Properties	Sample/Lot	Tech. Spec./ Relevant Std/ Approved Drawing	TC	3/2	-	1
1.2	Stainless Steel	-do-	-do-	-do-	TC	3/2	-	1
2	Bought Out Items							
2.1	Hardwares (Fasteners), If applicable	-do-	-do-	-do-	TC	3/2	-	1
3	In Process							
3.1	Welding							
i)	NDT of Fillet Welds	RT, UT, MPI, DPT (as applicable)	100%	-do-	IR	3/2	-	1
ii)	NDT of Full Strength Welds - (Butt Weld)	RT, UT, MPI, DPT (as applicable)	-do-	-do-	IR	3/2	-	1
iii)	Welder Certification	Visual	-do-	-do-	TC	3/2	-	1
3.2	Machining (Roller track, seal track etc.)	Visual & Measurement	-do-	-do-	IR	3/2	-	1

Signature
(QA&I DEPT.)

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

गुणवत्ता आश्वासन योजना (MODEL QUALITY ASSURANCE PLAN) : MODEL

परियोजना (PROJECT) :

उपस्कर का नाम (NAME OF EQUIPMENT) : EMBEDDED PARTS- SLIDE TYPE/WHEEL
TYPE/HINGED TYPE/RADIAL GATES/STOPLOG (BULKHEAD)

ग्राहक (CLIENT) :

विक्रेता (VENDOR) :

एनआईटी / क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

(Sill beam, Seal seats, Wall Plates, Side guides, Track, Anchor rods/ studs etc.- As applicable)

क्र. सं. SR. NO.	मद/घटक एवं विशेषता ITEM /COMPONENTS & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERENCE DOCUMENTS/ ACCEPTANCE NORMS	रिकॉर्ड प्रारूप RECORD FORMAT	निरीक्षण एजेंसी (INSP. AGENCY)		
						प्रदर्शन Perform	गवाह Witness	सत्यापन Verify
4	Final Inspection							
4.1	Dimensional Check	Measurement	Critical dim.	Tech. Spec./ Relevant Std/ Approved Drawing	JIR	3/2	1	-
4.2	Welding Examination							
4.2.1	Weld Size	Visual / Measurement	Random	-do-	JIR	3/2	1	-
4.2.2	NDT of Fillet Weld	RT, UT, MPI, DPT (as applicable)	10% of Fillet welds length	-do-	JIR	3/2	1	-
4.3	Surface Finish (Machined Surface)- If applicable	Visual / Measurement	Random	-do-	JIR	3/2	1	-
4.4	Shop Assembly (Frames & Guides)- If applicable	Visual / Measurement	100%	-do-	JIR	3/2	1	-
5	Surface Preparation & Painting	Visual & measurement (DFT)	-do-	-do-	TC	3/2	-	1

Signature
(QA&I DEPT.)

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

परियोजना (PROJECT) :

उपस्कर का नाम (NAME OF EQUIPMENT) : SLIDE TYPE GATES, STOPLOGS / BULKHEAD GATES (As applicable)

ग्राहक (CLIENT) :

विक्रेता (VENDOR) :

एनआईटी / क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

क्र. सं. SR. NO.	मद/घटक एवं विशेषता ITEM /COMPONENTS & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERENCE DOCUMENTS/ ACCEPTANCE NORMS	रिकॉर्ड प्रारूप RECORD FORMAT	निरीक्षण एजेंसी (INSP. AGENCY)		
						प्रदर्शन Perform	गवाह Witness	सत्यापन Verify
1	Raw Material							
1.1	Structural Steel-Skin Plates, Vertical Stiffeners, Horizontal Girder, Steel Section like Channel, Beam etc.	Chem. & Mech Prop.	Sample/lot	Tech. Spec./ Relevant Std/ Approved Drawing	TC	3/2	-	1
1.2	Stainless Steel (Seal seats)	-do-	-do-	-do-	TC	3/2	-	1
1.3	Forged Steel/Cast Steel	-do-	-do-	-do-	TC	3/2	-	1
1.4	NDT of Plates, Forged / Cast steel	RT, UT, MPI, DPT (as applicable)	100%	-do-	TC	3/2	-	1
2	Bought Out Items							
2.1	Hardwares (Fasteners)-Make, Type, Dimension Report, Material Properties	Visual / Measurement	Sample/lot	-do-	TC	3/2	-	1
2.2	Rubber Seals- Make, Type, Dimension Report, Material Properties	Visual / Measurement	-do-	-do-	TC/COC	3/2	-	1
2.3	Bushing, Bearing- Make, Type	Visual	100%	-do-	TC	3/2	-	1
2.4	Material for Filling - in - Valves (If applicable)	Visual	-do-	-do-	TC	3/2	-	1
3	In Process							
3.1	Structural Steel, Stainless Steel & Forged Steel							
3.1.1	Dimensional Checks in Tack Position.	-do-	-do-	-do-	IR	3/2	-	1

Signature
(QA&I DEPT.)

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परियोजना (PROJECT) :

उपस्कर का नाम (NAME OF EQUIPMENT) : SLIDE TYPE GATES, STOPLOGS / BULKHEAD GATES (AS applicable)

ग्राहक (CLIENT) :

विक्रेता (VENDOR) :

एनआईटी / क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

क्र. सं. SR. NO.	मद/घटक एवं विशेषता ITEM /COMPONENTS & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERENCE DOCUMENTS/ ACCEPTANCE NORMS	रिकॉर्ड प्रारूप RECORD FORMAT	निरीक्षण एजेंसी (INSP. AGENCY)		
						प्रदर्शन Perform	गवाह Witness	सत्यापन Verify
3.2	Welding	Visual / Measurement	100%	Tech. Spec./ Relevant Std/ Approved Drawing	IR	3/2	-	1
3.2.1	NDT of Fillet Welds	RT, UT, MPI, DPT (as applicable)	100% Fillet weld length	-do-	TC	3/2	-	1
3.2.2	NDT of Full Strength Welds - (Butt Weld)	RT, UT, MPI, DPT (as applicable)	100%	-do-	TC	3/2	-	1
3.2.3	Welder Certification	Visual	-do-	-do-	TC	3/2	-	1
3.3	Machining Dimensions							
3.3.1	Thrust Pads, Seal Seats , Seal Clamp Bars Guide Brackets and Lifting Brackets on Welded Gate Units	Measurement	100%	-do-	IR	3/2	-	1
3.3.2	Sub Assembly of Filling-in-Valve (If applicable)	Visual / Measurement	-do-	-do-	IR	3/2	-	1
3.3.3	Sub Assembly of Sill level Sensing Device (If applicable)	-do-	-do-	-do-	IR	3/2	-	1
3.3.4	Dimensional Checks	Measurement	-do-	-do-	IR	3/2	-	1

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गुणवत्ता आश्वासन योजना (MODEL QUALITY ASSURANCE PLAN) : MODEL

परियोजना (PROJECT) :

उपस्कर का नाम (NAME OF EQUIPMENT) : SLIDE TYPE GATES, STOPLOGS / BULKHEAD

GATES (As applicable)

ग्राहक (CLIENT) :

विक्रेता (VENDOR) :

एनआईटी / क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

क्र. सं. SR. NO.	मद/घटक एवं विशेषता ITEM /COMPONENTS & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERENCE DOCUMENTS/ ACCEPTANCE NORMS	रिकॉर्ड प्रारूप RECORD FORMAT	निरीक्षण एजेंसी (INSP. AGENCY)		
						प्रदर्शन Perform	गवाह Witness	सत्यापन Verify
4	Final Inspection							
4.1	Dimensional Check on Assembled Gate Units	Measurement	Critical dim.	Tech. Spec./ Relevant Std/ Approved Drawing	JIR	3/2	1	-
4.2	Verticality and C.G. checking	-do-	100%	-do-	JIR	3/2	1	-
4.3	Verification of T.R. of Drawing	-do-	-do-	-do-	JIR	3/2	1	-
4.4	Welding Examination	Visual/ Measurement	Random	-do-	JIR	3/2	1	-
4.4.1	NDT of Fillet Weld	RT, UT, MPI, DPT (as applicable)	10% of Fillet welds length	-do-	JIR	3/2	1	-
4.5	Surface Finish (Machined Surface)-If applicable	Visual/ Measurement	Random	-do-	JIR	3/2	1	-
4.6	Shop Assembly							
4.6.1	Functional Test of Filling - in - Valve (If applicable)	Visual	100%	-do-	JIR	3/2	1	-
5	Surface Preparation & Painting	Visual/ Measurement	-do-	-do-	TC	3/2	-	1

Signature
(QA&I DEPT.)

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परियोजना (PROJECT) :

ग्राहक (CLIENT) :

उपस्कर का नाम (NAME OF EQUIPMENT) : Fixed Wheel Type Gates

विक्रेता (VENDOR) :

एनआईटी / क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

क्र. सं. SR. NO.	मद/घटक एवं विशेषता ITEM /COMPONENTS & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERENCE DOCUMENTS/ ACCEPTANCE NORMS	रिकॉर्ड प्रारूप RECORD FORMAT	निरीक्षण एजेंसी (INSP. AGENCY)		
						प्रदर्शन Perform	गवाह Witness	सत्यापन Verify
1	Raw Material (As applicable)							
1.1	Structural Steel-Skin Plates, Vertical Stiffeners, Horizontal Girder, Steel Section like Channel, Beam etc.	Chem & Mech. Prop.	Sample/lot	Tech. Spec./ Relevant Std/ Approved Drawing	TC	3/2	-	1
1.2	Stainless Steel	-do-	-do-	-do-	TC	3/2	-	1
1.3	Forged Steel/Cast Steel	-do-	-do-	-do-	TC	3/2	-	1
1.4	NDT of Plates, Forge / cast Steel	RT, UT, MPI, DPT (as applicable)	100%	-do-	TC	3/2	-	1
2	Bought Out Items (As applicable)							
2.1	Hardwares (Fasteners)-Make, Type, Dimension Report, Material Properties	Visual / Measurement	Sample/lot	-do-	TC/COC	3/2	-	1
2.2	Rubber Seals- Make, Type, Dimension Report, Material Properties	Visual / Measurement	-do-	-do-	TC/COC	3/2	-	1
2.3	Bushing, Bearing- Make, Type	Visual	100%	-do-	TC/COC	3/2	-	1
3	In Process (As applicable)							
3.1	Structural Steel, Stainless Steel & Forged Steel							
3.1.1	Dimensional Checks in Tack Position.	Measurement	-do-	-do-	IR	3/2	-	1
3.2	Welding	Visual / Measurement	-do-	-do-	IR	3/2	-	1
3.2.1	NDT of Fillet Welds	RT, UT, MPI, DPT (as applicable)	100% Fillet welds length	-do-	TC	3/2	-	1
3.2.2	NDT of Full Strength Welds - (Butt Weld)	RT, UT, MPI, DPT (as applicable)	100%	-do-	TC	3/2	-	1
3.2.3	Welder Certification	Visual	-do-	-do-	TC	3/2	-	1

Signature
(QA&I DEPT.)

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(VENDORS Q.C. DEPT. OR REPRESENT/

परियोजना (PROJECT) :

ग्राहक (CLIENT) :

उपस्कर का नाम (NAME OF EQUIPMENT) : Fixed Wheel Type Gates

विक्रेता (VENDOR) :

एनआईटी / क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

क्र. सं. SR. NO.	मद/घटक एवं विशेषता ITEM /COMPONENTS & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERENCE DOCUMENTS/ ACCEPTANCE NORMS	रिकॉर्ड प्रारूप RECORD FORMAT	निरीक्षण एजेंसी (INSP. AGENCY)		
						प्रदर्शन Perform	गवाह Witness	सत्यापन Verify
3.3	Machining Dimensions							
3.3.1	Seal Bases, Clamp Bar, Rollers, Wheels & Guide Brackets etc.	Measurement	100%	Tech. Spec./ Relevant Std/ Approved Drawing	IR	3/2	-	1
3.3.2	Sub Assembly of Gate Wheels	-do-	-do-	-do-	IR	3/2	-	1
4	Final Inspection							
4.1	Dimensional Check on Assembled Gate Units	Measurement	Critical Dim	-do-	JIR	3/2	1	-
4.2	Verticality and C.G. checking	-do-	100%	-do-	JIR	3/2	1	-
4.3	Verification of T.R. of Drawing	-do-	-do-	-do-	JIR	3/2	1	-
4.4	Welding Examination	-do-	Random	-do-	JIR	3/2	1	-
4.5	Functional Test of Filling - in - Valve (If applicable)	Visual	100%	-do-	JIR	3/2	1	-
5	Surface Preparation & Painting	Visual / Measurement	-do-	-do-	TC	3/2	-	1

- Note:
- In 'Inspection Agency' column figure 1,2,or 3 to be filled. 1- will indicate 'NHPC Ltd', 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.
 - In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission, COC- Certificate of conformity, CHP - Customer Hold Point & JIR-Joint Inspection Report.
 - The firm shall obtain acceptance/clearance of finished product for further activities based on Test Certificates & Internal Report (IR)
 - Any additional test required as per the requirement of equipment in accordance with Contract Agreement/Relevant standard apart from QAP will be carried out by the firm without any additional financial impli
 - This QAP does not absolve the Contractor/sub-contractor of his responsibility to supply the correct products, strictly in conformity to the specifications given in the purchase order/contract. The above Model QA the bare minimum requirements which shall be complied by the contractor. The above QAP has been made presuming subletting of work shall be allowed in the tender. In case subletting of work is not allowed in then "3/2" shall be replaced by "2" under the column " Perform".
 - At the time of Inspection the supplier shall arrange the requisite calibrated measuring instruments i.e.micrometer, vernier caliper, pie tape, surface roughness tester, dial gauge etc. Material testing shall be cor NABL accredited lab/Govt. approved lab. NDT shall be conducted from NABL accredited lab/Govt. approved lab/Level-2 or 3 certified person.

Signature
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गुणवत्ता आश्वासन योजना (QUALITY ASSURANCE PLAN) : MODEL

परियोजना (PROJECT) :

ग्राहक (CLIENT) : NHPC LTD

उपस्कर का नाम (NAME OF EQUIPMENT) : Hinge Type Gate (If applicable)

विक्रेता (VENDOR) :

एनआईटी/ क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

क्र. सं. SR. NO.	मद/घटक एवं विशेषता ITEM /COMPONENTS & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERENCE DOCUMENTS / ACCEPTANCE NORMS	रिकॉर्ड प्रारूप RECORD FORMAT	निरीक्षण एजेंसी (INSP. AGENCY)		
						प्रदर्शन Perform	गवाह Witness	सत्यापन Verify
1	Raw Material							
1.1	Structural Steel - Steel Plates, Steel Sections like Angles, Channels, Beams etc.	Chem. Prop. & Mech. Prop.	Sample/lot	Appd. Drawing,Tech. specs., Relevant Standard	TC	3/2	-	1
1.2	Stainless Steel		-do-	-do-	TC	3/2	-	1
1.3	Forged Steel/Cast Steel		-do-	-do-	TC	3/2	-	1
1.4	Plates, Forged Steel & Cast Steel	RT, UT, MPI, DPT (as applicable)	100%	-do-	TC	3/2	-	1
2	Bought Out Items							
2.1	Hardwares (Fasteners)-Make, Type, Dimension Report, Material Properties	Visual / Measurement	Sample/lot	-do-	TC/COC	3/2	-	1
2.2	Rubber Seals- Make, Type, Dimension Report, Material Properties	-do-	-do-	-do-	TC/COC	3/2	-	1
2.3	Bushing, Bearing- Make, Type	Visual	100%	-do-	TC/COC	3/2	-	1
3	In Process/Stage inspection							
3.1	Structural Steel, Stainless Steel & Forged Steel							
3.1.1	Fit - up of joints	Measurement	-do-	-do-	IR	3/2	-	1
3.1.2	Dimensional Check	-do-	-do-	-do-	IR	3/2	-	1
3.2	Welding	Visual / Measurement	-do-	-do-	IR	3/2	-	1
3.2.1	Welder Certification	Visual	-do-	-do-	TC	3/2	-	1
3.2.2	Fillet Welds	RT, UT, MPI, DPT (as applicable)	100% Fillet welds length	-do-	TC	3/2	-	1
3.2.3	Full Strength Welds - Butt Weld	RT, UT, MPI, DPT (as applicable)	-do-	-do-	TC	3/2	-	1
3.3	Machining							
3.3.1	Machined Surfaces	Visual & Measurement	100%	-do-	IR	3/2	-	1

IMS/QAI/F-01

Rev-03 Effective date-09.01.19

Signature

NHPC LTD (QA&I DEPT.)

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गुणवत्ता आश्वासन योजना (QUALITY ASSURANCE PLAN) : MODEL

परियोजना (PROJECT) : RATLE H. E. PROJECT

उपस्कर का नाम (NAME OF EQUIPMENT) : Hinge Type Gate (If applicable)

ग्राहक (CLIENT) :

विक्रेता (VENDOR) :

एनआईटी/ क्रय आदेश संदर्भ (NIT/P.O. REFERENCE) :

क्र. सं. SR. NO.	मद/घटक एवं विशेषता ITEM /COMPONENTS & CHARACTERISTICS	जाँच की प्रकृति NATURE OF CHECKS	जाँच की मात्रा QUANTUM OF CHECKS	संदर्भ दस्तावेज़ / स्वीकृति मानदंड REFERENCE DOCUMENTS / ACCEPTANCE NORMS	रिकॉर्ड प्रारूप RECORD FORMAT	निरीक्षण एजेंसी (INSP. AGENCY)		
						प्रदर्शन Perform	गवाह Witness	सत्यापन Verify
4	Final Inspection							
4.1	Dimensional Check on Assembled Gate Unit	Measurement	Critical dimension	Appd. Drawing, Tech. specs., Relevant Standard	JIR	3/2	1	-
4.2	BOM check & Verification of T.R. of Drawing	Visual	100%	-do-	JIR	3/2	1	-
4.3	Welding Examination	Visual/ Measurement	Random	-do-	JIR	3/2	1	-
4.3.1	Fillet Weld	RT, UT, MPI, DPT (as applicable)	10% of Fillet welds	-do-	JIR	3/2	1	-
4.4	Trail assly.of Adit Gate with its Embedded Parts / Reception Frame	Visual/ Measurement	100%	-do-	JIR	3/2	1	-
4.5	Surface Finish (Machined Surface)	Visual / Measurement	Random	-do-	JIR	3/2	1	-
5	Surface Preparation & Painting	Visual / Measurement	100%	-do-	TC	3/2	-	1

- Note:
- In 'Inspection Agency' column figure 1,2,or 3 to be filled. 1- will indicate 'NHPC Ltd', 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.
 - In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission, CHP - Customer Hold Point & JIR-Joint Inspection Report.
 - The firm shall obtain acceptance/clearance of finished product for further activities based on Test Certificates & Internal Report (IR)
 - Any additional test required as per the requirement of equipment in accordance with Contract Agreement/Relevant standard apart from QAP will be carried out by the firm without any additional financial impli
 - This QAP does not absolve the Contractor/sub-contractor of his responsibility to supply the correct products, strictly in conformity to the specifications given in the purchase order/contract. The above Model QAP the bare minimum requirements which shall be complied by the contractor. The above QAP has been made presuming subletting of work shall be allowed in the tender. In case subletting of work is not allowed in then "3/2" shall be replaced by "2" under the column " Perform".
 - At the time of Inspection the supplier shall arrange the requisite calibrated measuring instruments i.e.micrometer, vernier caliper, pie tape, surface roughness tester, dial gauge etc. Material testing shall be cor NABL accredited lab/Govt. approved lab. NDT shall be conducted from NABL accredited lab/Govt. approved lab/Level-2 or 3 certified person.

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