



Item: Pipeline Pigging and Hydrotesting					INSPECTION CATEGORY: A
ONGC FUNCTIONAL SPEC: 2022					
Activity No	1. Inspection by ONGC or ONGC Appointed Certification Agency (CA)				
	2. Inspection by ONGC’s inspection agency (TPI)				
	3. Inspection by Contractor/ Sub-Contractor				
	Stages of Inspection				
					<b>Prior to Commencement of Work</b>
1	R	R	P		Approved Project Drawings and Documents, as applicable are available
2	R	R	P		Ensure Completion certificates related to Segment e.g. Pipeline, Riser, Crossing, Free-Span are available
3	R	R	P		Approved Procedure for Pigging & Hydrotesting is available
4	RW	RW	P		Calibration and Certification of all test equipment are available
5	RW	RW	P		Ensure all safety procedures are in place
6	RW	RW	P		Testing of Sea water at Laboratory for analysis prior to Flooding & Hydrotesting
7	R	R	P		Recommendation from Chemical manufacturer for proportion of chemical mixture for Oxygen scavenger, Bactericide, Corrosion inhibitor
8	RW	RW	P		Equipment & Instruments set up according to battery limit of subsea pipeline for Pigging and Hydrotesting
9	R	R	P		Ensure all records and reports are maintained for all activities for submission in As-built Dossier to ONGC
					<b>Flooding, Cleaning and Gauging</b>
10	RW	RW	P		Launch pigs as per sequence along with filtered seawater equivalent to 250m length of pipe behind each pig
11	W	W	P		Inspect Magnetic attachment on Cleaning Pig. Maintain photographic record of the debris received after cleaning
12	W	W	P		Ensure gauge plate dimension is as per specification and approved procedure
13	W	W	P		Ensure witness of gauge plate fitting and gauge plate signed by client before assembling gauge pig. Make records including photograph of Gauge plate
14	RW	RW	P		After launching gauge pig, monitor filling water, chemical injection dosage and record all parameters
15	W	W	P		Record details of Chemicals (Oxygen scavenger, Bactericide, Corrosion inhibitor) like Manufacturer, Trade name, Composition, Dosage, data sheet
16	W	W	P		Recover pigs and gauge plate shall be inspected. Make records including photograph of Gauge plate
17	R	R	P		Ensure all records and reports are maintained for all activities for submission in As-built Dossier to ONGC



					<b>Hydrotesting</b>
18	H	H	P		Hydrotest water shall be injected with Oxygen scavenger, Bactericide, Corrosion inhibitor and dye.
19	W	W	P		Record details of Chemicals (Oxygen scavenger, Bactericide, Corrosion inhibitor) like Manufacturer, Trade name, Composition, Dosage, data sheet
20	RW	RW	P		Check air content, pressurization, stabilization as per specifications and approved procedures.
21	RW	W	P		Hold 24 hours at Hydrotest Pressure
22	RW	RW	P		During the hold period, the pressure and the water temperature shall be recorded every one hour
23	RW	W	P		Depressurization as per specifications and approved procedures.
24	W	W	P		Recording of all parameters during Hydrotesting
25	R	R	P		Ensure all records and reports are maintained for all activities for submission in As-built Dossier to ONGC

**P-Perform; M- Monitor; R- Review; W-Witness; RW-Random Witness; H-Hold**

**Note: The Activities listed above are not exhaustive. Inspection of other activities shall be carried out as per requirement of the FS & Design Criteria.**