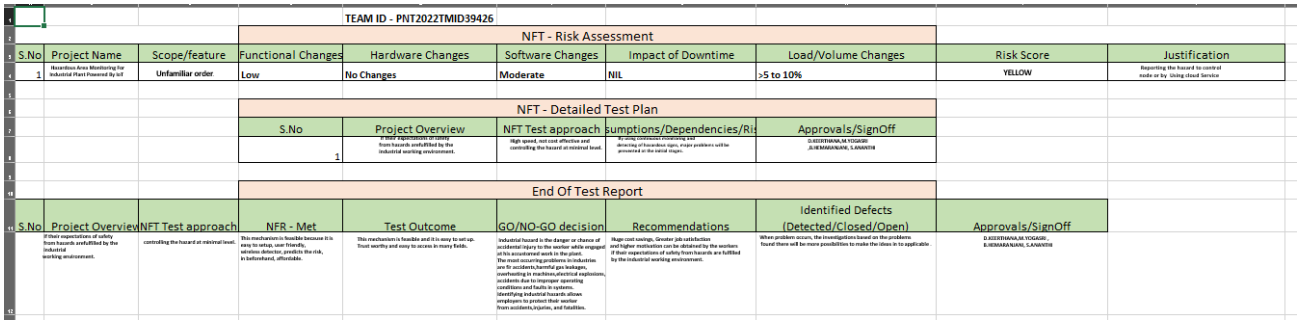
PROJECT DEVELOPMENPHASE

PERFORMANCE TESTING

TEAM ID	PNT2022TMID39426
PROJECT ID	Hazardous Area Monitoring For Industrial Plant Powered By IoT

NTF-_RA:



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NFT - Risk Assessment

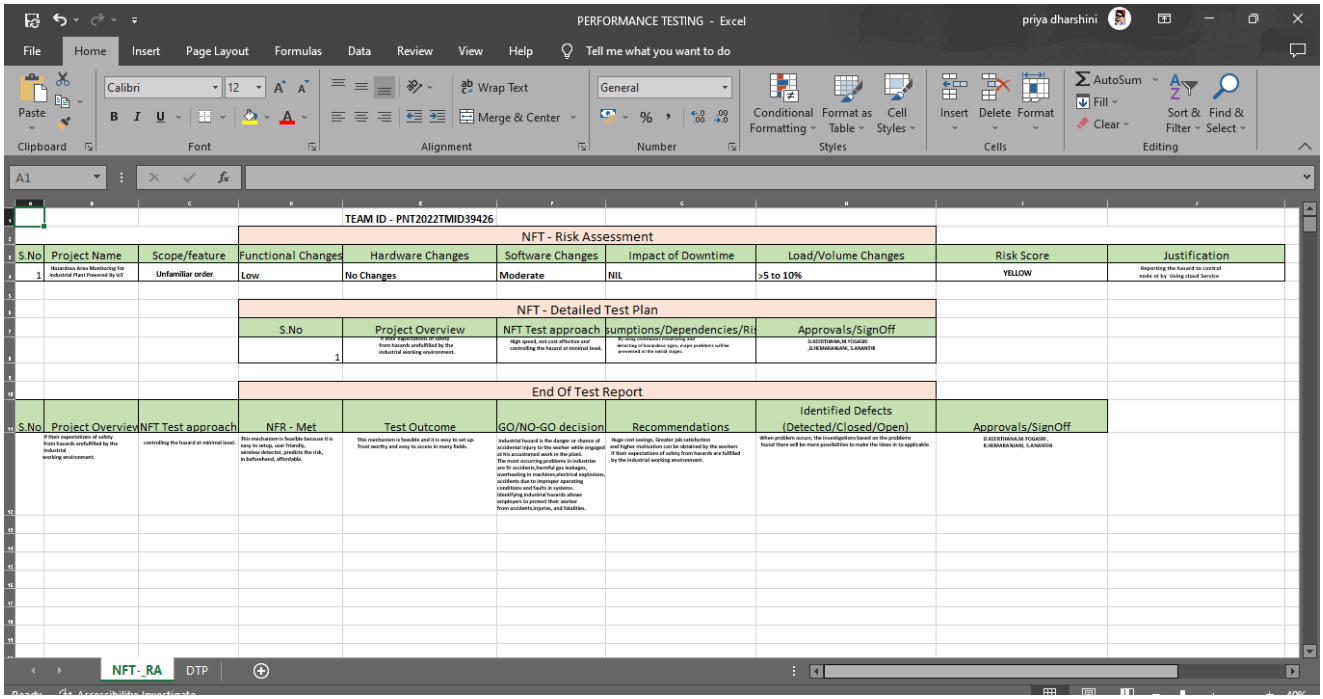
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Volume Changes	Risk Score	Justification
1	Hazardous Area Monitoring for Industrial Plant Powered By IoT	Unfamiliar order.	Low	No Changes	Moderate	NIL	>5 to 10%	YELLOW	Reporting the hazard to control node or by Using cloud Service

NFT - Detailed Test Plan

S.No	Project Overview	NFT Test approach	sumptions/Dependencies/Ris	Approvals/SignOff
1	If their expectations of safety from hazards areFulfilled by the industrial working environment.	High speed, not cost effective and controlling the hazard at minimal level.	By using Continuous monitoring and detecting of hazardous signs, major problems will be prevented at the initial stages.	D.KEERTHANA,M.YOGASRI ,S.HEMAVARNANI, S.ANANTHI

End Of Test Report

S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	Identified Defects (Detected/Closed/Open)	Approvals/SignOff
	If their expectations of safety from hazards areFulfilled by the industrial working environment.	controlling the hazard at minimal level.	This mechanism is feasible because it is easy to setup, user friendly, wireless detector, predicts the risk, in beforehand, affordable.	This mechanism is feasible and it is easy to set up. Trust worthy and easy to access in many fields.	Industrial hazard is the danger or chance of accidental injury to the worker while engaged at his occuttered work in the plant. The most occurring problems in industries are fir accidents,harmful gas leakages, overheating in machines,electrical explosions, accidents due to improper operating conditions and faults in systems. Identifying industrial hazards allows employers to protect their worker from accidents,injuries, and fatalities.	Huge cost savings, Greater job satisfaction and higher motivation can be obtained by the workers if their expectations of safety from hazards are fulfilled by the industrial working environment.	When problem occurs, the investigators based on the problems found there will be more possibilities to make the ideas in to applicable .	D.KEERTHANA,M.YOGASRI , S.HEMAVARNANI, S.ANANTHI



DTP:

NFT Test approach	load test
step 1	Python script to connect IBM watson IoTplatform to get data from cloud
step 2	IBM simulation
step 3	line chart IBM watson IoT platform board
step 4	Installing ibm iot using command prompt window and node-red on ibm cloud
step 5	Run python code with connection of ibm cloud and deploying in node -red
step 6	Simulation of deploying node-red on ibm cloud and then displaying temperature and humidity values in mobile application
step 7	Detecting temperature and humidity through mobile application
step 8	database schema node -red dashboard