

		KOTHARI PETROCHEMICALS LIMITED PIB PLANT, MANALI, CHENNAI-600068.		WORK PERMIT NO:		2		
EMERGENCY CONTACT NUMBERS: 200, 218,230		OHC /MEDICAL CENTRE/AMBULANCE CALL:208,209		JOB ID		cvbcv2		
COLD WORK PERMIT, CONFINED SPACE PERMIT, ELECTRICAL PERMIT, EXCAVATION PERMIT, HOT WORK PERMIT, LIFTING PERMIT, WORK AT HEIGHT PERMIT								
1	VALIDITY FROM		31/10/2020 14:15:48		VALIDITY TO		31/10/2020 18:00:00	
2	PERMIT ISSUER:		Karthiban M		PERMIT RECEIVER:		wqer	
3	DESCRIPTION OF WORK		wedwqr					
4	LOCATION OF THE WORK		erfew		EQUIPMENT NAME		P_1002A-C4 EFFULENT TRANSFER PUMP	
5	WORK DONE BY		Department		DEPARTMENT		CPP	
	NAME OF CONTRACTOR		vel k		RISK ASSESSMENT REQUIRED?		No	
6	CHECK LIST: Following points should be checked before issuing the Work Permit with reference to the nature of job.							
	Done	Not Required	Check List			Done	Not Required	Check List
1		✓	Equipment Isolated		2		✓	"Electrical Lockout, Tagout & Line clearance obtained"
3		✓	Valve isolation		4		✓	Double valve isolation
5		✓	Drain/ Depressurize the equipment		6		✓	Purge/Waterflush the equipment
7		✓	"Sewer, manholes, etc. and hot surfaces nearby covered"		8		✓	Verify mobile equipment inspected
9		✓	Area cardoned off		10		✓	Surrounding area checked & cleaned up of oil /rags/ grass etc.
11		✓	Use Non sparking Tools		12		✓	Slip plate / Blind provided
13		✓	Display of Contractors work execution board at site		14		✓	Proper lighting provided at work site.
15		✓	Proper ventilation provided at work site.		16		✓	Display of caution boards / tags provided
17		✓	Safe means of access		18		✓	Considered hazard from other routine / non-routine operations and concerned persons alerted.
19		✓	Discussion of job related Hazards		20		✓	Standby person provided for continuous supervision (Contractor / Process / Maintenance.)
21		✓	Gas Tests: mention values in the table					
			Work Specific Check List					Work Specific Check List
1	✓		Equipment / Work area checked		2	✓		Considered hazard from other routine / non routine operations and concerned persons alerted
3		✓	Firewater system checked for readiness		4		✓	Firewater hose/ Portable extinguisher provided
5		✓	Equipment Steamed /N2 purged		6		✓	Equipment blinded / Disconnected / Closed / Isolated / wedged open
7	✓		All Flammable materials removed		8		✓	Proper means of Escape & Rescue available or provided
9		✓	Checked spark arrestor on mobile equipment		10		✓	Welding machine checked, earthed & located at safe location
11		✓	Shield / booth against sparks provided		12		✓	Earthing of the equipment verified
13		✓	Oxygen / Acetylene cylinder kept outside Confined space (tank / Vessel / Column etc.)		14		✓	ELCB provided on portable electrical equipment

15	✓	Flash back arrestor provided on gas cutting set / Cylinders	16	✓	Scaffolding, ladders and Platform checked and OK
17	✓	Considered hazard from other routine / non routine operations	18	✓	Concerned persons alerted
19	✓	Equipment blinded / disconnected / closed / isolated / wedged/opened	20	✓	Adequate ventilation provided inside the workspace
21	✓	Adequate (24 V) lighting provided	22	✓	Exhaust Fan provided
23	✓	Safety belt/ lifeline provided	24	✓	Provision to rescue available
25	✓	Moving parts de-energized	26	✓	Use of Air hose / Fresh air mask / Breathing apparatus
27	✓	Means of communication provided.	28	✓	Proper means of access / exit provided
29	✓	Blind list attached (Vessel / columns / Process Equipments etc.)	30	✓	Inert gas/LPG disconnected
31	✓	Ladder arranged in good condition	32	✓	Valve closed/tagged/locked
33	✓	Positive Isolation of Lines/Equipment ensured by?.....	34	✓	The apparatus to be worked upon has been isolated a) Racking out of Breaker b) Switching off of FSUs c)Removal of main fuses d)Removal of Neutral link
35	✓	Power Supply a) Isolated from supply end b)Removal of Main fuses	36	✓	Control supply a) Isolation of control supply b) Removal of control fuses
37	✓	Space heater Supply a) Isolation of control supply b) Removal of control fuses	38	✓	Interlocking or any other supply a) Isolation of control supply b) Removal of control fuses
39	✓	Checking of Isolation of apparatus visually, electrically and mechanically	40	✓	In case of HT equipment, checking with discharge rod /by any other method to make sure the equipment is dead and safe to work
41	✓	Carrying out of Earthing by suitable means	42	✓	In case HT Breaker, Locking of safety shutters / door
43	✓	In case of cutting and removal of cable, identification of cable by suitable means to confirm the cable & it's dead condition	44	✓	Ensuring proper tools / tackles / measuring instruments and other safety equipments
45	✓	Continuous supervision by KPL person/ Consultant / Contractor Supervisor during execution of the job	46	✓	Fixing of Danger tags with Signature
47	✓	Fixing of Caution tag / Notice on it or adjacent to live apparatus	48	✓	Area marked and checked by Electrical/Instrument Manager
49	✓	Electrical details of underground cables & precaution to be taken.....	50	✓	Instrument details of underground cables / pipes & precaution to be taken.....
51	✓	Mechanical details of underground cables / pipes & precaution to be taken.....	52	✓	Details of Excavation : Length.....m width?.....m Depth??.....?.. M
53	✓	Underground cables checked	54	✓	Underground pipes checked
55	✓	Hand tools are insulated	56	✓	Pointed axe not used in the vicinity of cables
57	✓	Shoring arrangement done	58	✓	Barricaded with safety sign
59	✓	Continuous supervision present during work	60	✓	Permit excavation sketch given-Refer the last section (or) attached picture
61	✓	Power lines / HT lines are not in the close proximity of work area or isolated /disconnected. (write details)	62	✓	Lifting equipment and tools and tackles (websling, wire rope etc) duly tested. Test Certificate available.
63	✓	Safe working load of crane.....Tonnes	64	✓	Details of Load : Length.....m; width.....m; Dia?.....m; weight ?..... Tonnes
65	✓	Crane/ Hydra checks done as per OEM needs	66	✓	Valid statutory test certificates available
67	✓	Check Operator Licence validity	68	✓	Enclose all the crane documents

69		✓	Precautions taken for overhead cables, pipe racks	70		✓	Condition of floor stable for Crane
71		✓	Rigging area barricaded	72		✓	Rigging supervisor available
73		✓	Adequate lighting provided	74		✓	Power lines / HT lines are not in the close proximity of work area or isolated /disconnected. (Write details)
75		✓	Is there any overhead restrictions? Specify?.....	76		✓	Is there any crane movement restrictions? Specify?.....
77		✓	Is there any below ground restrictions? Specify?.....	78		✓	Precaution taken against Road traffic restrictions?.....
79		✓	Crane operator License ?.....	80		✓	Insurance for Crane ?.....
81		✓	Registration certificate for Crane?.....	82		✓	Area cordoned off / covering of floor openings, & display of caution boards / tags at site.
83		✓	Precautions against falling of material in work area and material carried up at elevation are fall protected.	84		✓	Provision of roof ladder / scaffold for working at height
85		✓	Number of persons likely to work on the platform?.....	86		✓	Scaffolding erected as per KPL Standard, inspected and display of safe to use board at site
87		✓	Provision of safety net at site (as per nature of job)	88		✓	Provision of fall arrester at site (as per nature of job)
89		✓	Alternate means of escape / exit available at work site (Fixed ladder with 1 Meter projection, Platform without any obstructions)	90		✓	Provision of ELCB for use of portable tools / equipments being used at work site.
91		✓	Proper ventilation provided at work site.	92		✓	Power lines / HT lines are not in the close proximity of work area or isolated /disconnected.
93		✓	Workmen do not suffer from vertigo, are trained and experienced, authorized to work at height	94		✓	EC Required

7	SPECIAL PROTECTION / PPE						
<input checked="" type="checkbox"/>	Safety Helmet with Chin strip	<input type="checkbox"/>	Goggles	<input type="checkbox"/>	Safety Shoe	<input type="checkbox"/>	Gum boots
<input type="checkbox"/>	Gloves- Electrical	<input type="checkbox"/>	Gloves-PVC	<input type="checkbox"/>	Gloves- others	<input type="checkbox"/>	Gloves- (Heat resistant)
<input type="checkbox"/>	Dust Mask	<input type="checkbox"/>	ESD Shoe	<input type="checkbox"/>	Face shield	<input type="checkbox"/>	Welding suit
<input type="checkbox"/>	Apron/Boiler suit	<input type="checkbox"/>	PVC Suit/Chemical Protective Clothing	<input type="checkbox"/>	Full Body Harness (Safety Belt)	<input type="checkbox"/>	Lifeline
<input type="checkbox"/>	Fluorescent jacket	<input type="checkbox"/>	Fire Retardant suit	<input type="checkbox"/>	Ear plug/Ear Muff	<input type="checkbox"/>	Cartridge Mask
<input type="checkbox"/>	Self contained breathing apparatus (SCBA)	<input type="checkbox"/>	Online Breathing apparatus	<input type="checkbox"/>	Hood	<input type="checkbox"/>	Safety net
<input type="checkbox"/>	Barricades+ Warning signs	<input type="checkbox"/>	Others				
Others:werwer							

7.1	GAS TEST RESULT: Suggested retesting frequency is everyHrs (use additional table, if required)							
No.	Values	%O2	%LEL	Toxic Gas (PPM)	Other Gases	Name	Signature	Date Time
	Acceptable Values	19.5 - 22.5%	Zero	Less than TLV	Less than TLV			
1								
2								

8	PERMIT APPROVALS	Name	Remarks	Signature	Date Time
	I have checked the conditions in the field and the status is found as mentioned above. The job can be permitted.				
	Permit Issuer	Karthiban M			
	Permit Approver(Shift In Charge)	Vishnuvasan S			
	Stand by Person	Not Applicable			
	Safety officer	Karthiban M			
	Process Manager	Muruganantham RS			
	Electrical In charge*	Sivasubramanian Y			
	Mechanical In charge *	ramesh r			
	Instrumental In charge*	Vasanthanathan L			
	GM Operations *	Not Applicable			
	I have understood the above condition, arranged safety requirements, explained to the people concerned and received the permit for safe job execution.				
	Engineer/Tech.of recipient dept/Receiver.	wqer			

9	PERMIT CLOSURE	Name	Remarks	Signature	Date Time
	Certified that the subject work has been completed/ stopped and area cleaned.				
	Job completed & Hand over by Receiver				
	Job taken over & Permit closed by issuer				
	Shift InCharge				

10 CONTRACTOR RATING					
<input type="checkbox"/>	Red	<input type="checkbox"/>	Yellow	<input type="checkbox"/>	Green
Remarks (if Red and Yellow rating) :					

11 RENEWAL OF WORK PERMIT								
Day/ Date/Time	1. LEL Level (ZERO) 2. % O2(19.5 - 22.5 %)	Name & sign of Permit issuer	Name & sign of shift In charge	Name & sign of safety In charge	Name & sign of Stand by	Name & sign of Manager Process	Name & sign of GM	Name & sign of Receiver
First Extension Date:.....	1. 2.							
Second Extension Date:.....	1. 2.							
Third Extension Date:.....	1. 2.							
Fourth Extension Date:.....	1. 2.							
Fifth Extension Date:.....	1. 2.							

Sixth Extension Date:.....	1.							
	2.							
Seventh Extension Date:.....	1.							
	2.							

CONFINED SPACE – MANENTRY/EXIT LOG SHEET (Use additional sheet, if required)							
	Entrant Name	In Time	Signature	Sign of Stand by	Out time	Entrant Sign	Sign of Stand by
1							
2							
3							
4							
5							
6							
7							

**** Renewal of Hot work permit is allowed only if the work is carried out in Workshop**

GENERAL INSTRUCTIONS :	
1.	In case of an Emergency or FIRE ALARM, all works must be stopped and permit stands cancelled. All personnel must leave work site and proceed to emergency Assembly points soon.
2.	In case of any LPG/ Gas /Liquid release (or) abnormality noticed, stop work immediately and move to safe location till further instruction,
3.	This permit must be available at work site all the time. On job closure (or) expiry, this permit must be returned to the permit issuer/Shift Incharge.
4.	Do not commence the work without a valid work permit.
5.	Acquaint yourself with job and its hazards and ensure the tools used are safe.
6.	Inform regarding unsafe condition/unsafe act to operator/Safety incharge/Shift incharge
7.	When in doubt, consult KPL employee of concerned department (or) KPL Operator
8.	Work should be started within one hour after issue of this permit
9.	All safety precautions should be meticulously followed. Keep access clear for emergency.
10.	Incase of any emergency, permit should be surrendered to the issuing authority
11.	Permit is valid only for the mentioned time. After that, further extension is needed before proceeding the job
12.	Extension: To be extended only, if area and nature of work is same
13.	Extension: Daily extension should be authorized per the concerned persons, after reviewing the site again.
14.	Extension: If the job is discontinued, make a fresh permit
15.	Extension: Extension can be done maximum one week duration. Make new permit every Monday.

PERMIT SPECIFIC INSTRUCTIONS - Hot Work	
1.	Hot work includes spark, welding, gas cutting, hacksaw cutting, Hammering, burning, grinding, soldering, chipping, rivetting, shot blasting, drilling, camera flashing, power tools, IC Engine operations.
2.	Incase of gas/liquid leak, all HOT work must be stopped immediately
3.	For any hotwork inside the vessel, Confined Space permit should also be ensured

PERMIT SPECIFIC INSTRUCTIONS - CONFINED SPACE	
1.	Oxygen inside the vessel must be above 20.8%
2.	Entry/exit log sheet oof personnel entering confined space to be maintained with name of person, ID number by the executing agency / contractor Supervisor.
3.	Job briefing/ Pep safety talk to be done at work site prior to entry in to confined space and working.
4.	Provision of standby person, emergency preparedness should be ensured at work site.
5.	For any hotwork inside the vessel, hot work permit should also be ensured
6.	Do not allow gas cylinders inside the cofined space
7.	Confined Space Entry permit can not be extended

PERMIT SPECIFIC INSTRUCTIONS - WORK AT HEIGHT:	
1.	Ensure Emergency communication & actions, in case of emergency. Maintain the list of personnel working at height and safety register.
2.	Check scaffold stability. Do not overload the scaffolding with heavy material
3.	Do not use cracked material for scaffolds. No portion of scaffold to be removed or modified without approval.
4.	Wear safety belt postively and PPEs.

5.	No loose materials is to be kept on Jula top. They must be secured inside a box to aviod falling
6.	Ensure spot communication to Crane operator, signalman (if applicable) during job execution
7.	job allowed only when wind velocity is low.
8.	Personnel working at height must be experienced, medical fitness certificates to be obtained as required.
9.	Lifting equipment checked & inspected thoroughly for mechanical function & physical condition.

	PERMIT SPECIFIC INSTRUCTIONS - Lifting
1.	Ensure spot communication to crane operator, signalman during job execution
2.	Job allowed when wind velocity is low and only upto 18:00 hours
3.	Check the rope of the winch daily. Use proper wire ropes
4.	Lifting work permit can not be extended. Make a fresh permit after time elapsed

	PERMIT SPECIFIC INSTRUCTIONS -Excavation
1.	Refer the below Sketch (or) attached sketch for excavation details