

GENERAL NOTES:

- A. FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
- B. ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 530-.
- C. ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030-. D. FOR TYPICAL INSTRUMENT CONNECTION, SBDV, XV, MOV & ESDV DETAILS SEE DRAWINGS
- 50489-530-020-PID-1106.001, .002, .003, .004, .005, .006 & .007. E. FOR MISCELLANEOUS PIPING TYPICAL VALVING, DRAINAGE & GENERAL ARRANGEMENT OF LEVEL INSTRUMENTS
- PUMPS, STRAINERS & CONTROL VALVES SEE DRAWINGS 50489-530-020-PID-1108.001 TO 1108.010.
- . Drawing numbers shown in P&ID continuation boxes are abbreviated showing drawing sequential NUMBERS ONLY. THE FULL FORM OF THE DRAWING NUMBER IS 50489-530-020-PID-XXXX.SHT.NO.
- G. FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
- H. DETAIL NUMBERING FOR CI, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003. I. PAINTING & COATING ARE IN ACCORDANCE WITH KOC-P-001.
- J. LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID.
- K. FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009. L. FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

- 1. OUTPUT OF FIC-0374 (PID-1153.003) IS SET POINT TO FIC-0442 AS A TYPICAL.
- 2. REVERSE FLUSHING ARRANGEMENT ARE PROVIDED FOR DISPOSAL LINES.
- 4. 28 DISPOSAL WELL SLOTS ARE PROVIDED WITH PROVISION FOR THE ADDITION OF 5 FUTURE
- SLOTS. REFER TABLE-1 IN PID-1153.005.
- 5. FUTURE EXTENSION.
- 6. TRANSITION PIECE BETWEEN EPOXY LINED AND HDPE LINED SECTION OF PIPE. PIT WITH COVER PROVIDED.
- . DRAIN IS DIVERTED TO NEARBY GRAVITY DRAIN VESSEL ALONG THE LINE WORK
- 8. MECHANICAL INTERLOCK OF EACH INDIVIDUAL DISPOSAL LINE DRAIN VALVES TYPICAL IN LINE NO. 4"-WT-1327-Q95B ON MANIFOLD (PID: 1153.005) WITH ISOLATION VALVE ON REVERSE FLUSHING LINE (LINE NO. 4"-WT-1362-Q95B, PID: 1154.001 & 4"-WT-1363-Q95B, PID: 1154.004.
- CATHODIC PROTECTION INSULATING FLANGE TO BE SUPPLIED WITH PIPELINE.
- 10. NO PIGGING REQUIREMENT IS ENVISAGED FOR TREATED WATER DISPOSAL PIPELINE.
- 12. LOCATE BACK FLUSHING LINE NEAR TO ISOLATION VALVE.
- 13. FOR WELL HEAD INSTRUMENTATION REFER P&ID NO. PID-1311.003
- 14. STRAIGHT LENGTH REQUIREMENT FOR ORIFICE FLOW METER ARE 20D UPSTREAM & 5D DOWNSTREAM.
- 15. REFER SPECIFICATION FOR HDPE LINES DOC. NO. EF1902-615-DKO-SPC-001, INSPECTION SPOOL,
- PIT WITH COVER TO BE PROVIDED AT 10 METERS FROM EITHER END OF THE PIPELINE. 16. SUMMATION BLOCK IS ONLY LIMITED TO THOSE WELLS FOR WHICH RESPECTIVE FIC'S ARE IN
- 7. FOR CORROSION MONITORING STATIONS (CMS):-
- (a) CMS SHALL BE INSTALLED AS PER KOC-MP-035.
- (b) PROPER ACCESS PIT OR PLATFORM SHALL BE PROVIDED FOR RETRIEVAL OF COUPON/PROBE.
- (c) MATERIAL FOR CMS SHALL BE PROCURED FROM KOC APPROVED VENDOR LIST.
- (d) CMS SHALL BE LOCATED IN BOTTOM 6 O'CLOCK POSITION. (e) TAG NUMBERING OF CMS SHALL BE AS PER APPENDIX-C OF KOC-MP-035.

AS-BUILT AS-BUILT KOC APPROVAL LARSEN & TOUBRO LIMITED NAME / KOC No: NAME: DESIGNATION

GROUP / TEAM SIGNATURE

VAIBHAV VERMA **DESIGNATION:** SIGNATURE 25-Aug-2018 DEPT/ DIVISON: ENGINEERING

		881_	boy.	Rou.	S.	
ZO	ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	25.08.18
01	ISSUED FOR CONSTRUCTION	BAK/SSI	AKG	SRA	RAK	29.11.16
0	ISSUED FOR CONSTRUCTION	HSH/VSA	AKG	SRA	RAK	11.04.16
Ε	ISSUED INCORPORATED CLIENT COMMENTS	HSH/VSA	AKG	SRA	RAK	09.03.16
D	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	22.12.15
С	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	14.10.15
OC	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	30.05.15
В	ISSUED INCORPORATED CLIENT COMMENTS	JSI/VSA	AKG	SRA	RAK	20.02.15
Α	ISSUED FOR APPROVAL	BAK/VSA	AKG	SRA	RAK	05.12.14
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
112	DESCINI HON			APP	RD.	

CONTRACTOR REVISION



LARSEN & TOUBRO LIMITED FARIDABAD

NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT

DOCUMENT TITLE:-

PIPING & INSTRUMENTATION DIAGRAM TREATED WATER DISPOSAL WELLS

PROJECT NO.	DRAWING NO.						
	CONTRACTOR DRG. NO.	REV.	KOC DRG. NO.	REV.			
EF1902	50489-530-020-PID-1153.005	ZO					
	SHEET NO. 5 OF 23		SHEET NO.				
	COMPANY DRG. NO.	REV.					
	EF1902-530-DCO-PID-0153.010	Α4					
	SHEET NO.						
	EF1902	CONTRACTOR DRG. NO. 50489-530-020-PID-1153.005 SHEET NO. 5 OF 23 COMPANY DRG. NO. EF1902-530-DC0-PID-0153.010	CONTRACTOR DRG. NO. REV. 50489-530-020-PID-1153.005 ZO SHEET NO. 5 OF 23 COMPANY DRG. NO. EF1902-530-DC0-PID-0153.010 A4	CONTRACTOR DRG. NO. 50489-530-020-PID-1153.005 SHEET NO. 5 OF 23 COMPANY DRG. NO. EF1902-530-DC0-PID-0153.010 A4			