

Tindivanam Pharma Park Association (TPPA)

Block D1, Baid Metha Complex, No.16, Anna Salai, Little Mount, Saidapet, Chennai - 600 015

TENDER REFERENCE NO. TPPA/CF Development/CETP-PIPELINE/2024-25/01

SUPPLY AND LAYING OF EFFLUENT COLLECTION NETWORK USING HDPE PIPES OF VARIOUS DIAMETERS, INCLUDING CIVIL TANKS, MECHINCAL PUMPS,FITTINGS,BENDS,SPECIALS, VALVES,TAPPING POINTS FOR MEMBER UNITS & AUTOMATION OF THE COLLECTION NETWORK AT TANSIDCO PHARMA INDUSTRIAL PARK, PELLAKUPPAM, KOLLAR & VENMANIYATHUR VILLAGES, TINDIVANAM TALUK, VILLUPURAM DISTRICT, TAMIL NADU

CORRIGENDUM-2

Sl. No	Page No	Title	Clause No	For	Read as
1.	1	Tender Heading		Supply and Laying of Effluent Collection Network using HDPE Pipes of Various Diameters, Including Civil tanks, mechanical pumps, Fittings, Bends, Specials, Valves, Tapping Points for member units & automation of the collection network at TANSIDCO Pharma Industrial Park, Pellakuppam, Kollar & Venmaniyathur villages, Tindivanam Taluk, Villupuram District, Tamil Nadu.	Supply and Laying of Effluent Collection Network using HDPE Pipes of Various Diameters, Including Civil tanks, mechanical pumps, Fittings, Bends, Specials, Valves, Tapping Points for member units at TANSIDCO Pharma Industrial Park, Pellakuppam, Kollar & Venmaniyathur villages, Tindivanam Taluk, Villupuram District, Tamil Nadu.
2.	8	Scope of Work	7	Procurement of all pipes, fittings, valves, instruments, PLCs, cables, supports, cement, steel etc., for the entire pipeline network to collect and deliver the effluent to the CETP area as per drawing	Procurement of all pipes, fittings, valves, supports, cement, steel etc., for the entire pipeline network to collect and deliver the effluent to the CETP area as per Exhibit - 5. The invert levels for chambers and pipeline network are provided in Exhibit – 5.
3	8	Scope of Work	8	Site execution works related to pipeline laying, associated civil works (excavation, laying of PCC, continuous pipe supports, refilling & protective concrete cover etc.), tanks, pipe supports, instrumentation erection, cabling works, installation of PLCs, required software and complete the	Site execution works related to pipeline laying, associated civil works (excavation, laying of PCC, continuous pipe supports, refilling & protective concrete cover etc.), tanks, pipe supports and complete the entire pipeline system in a fully operational way.

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				entire system in a fully operational way			
4	8	Scope of Work	Table: A-Civil Works	<p>Excavation and laying PCC, providing supports for the pipe through the network route and also providing hard cover over the pipelines to ensure its life</p> <p>Construction of 20 KL underground RCC collection tank at PP-8 (CMP-11) along with suitable acid proof tile lining, collection nozzles, top inspection cover, rung ladder to enter the tank</p> <p>Foundation for erection of above ground MS rubber lined storage tank of 400 KL capacity.</p>	<p>At road crossings, suitable Hume pipe should be erected to protect the pipe</p> <p>Scope includes excavation, design, supply of materials, labour and total construction of the said tank along with required nozzles for inlet and outlet</p> <p>Scope includes design, supply of all materials, labour for completing the foundation in all respects</p>	<p>Excavation and laying PCC, providing supports for the pipe through the network route and also providing hard cover over the pipelines to ensure their life.</p> <p>At road crossings, the bidder shall provide appropriate protection with Hume Pipes for the pipeline installation.</p> <p>The installation must be carried out beneath the road using trenchless drilling technology (horizontal directional drilling (HDD), ensuring that the existing road structure is not disturbed in any way.</p>	<p>In the event that any damage is caused to existing infrastructure during the installation process, the bidder shall be responsible for the full cost of repairs and must restore the damaged infrastructure to its original condition at no additional cost to the project</p>
					<p>Construction of 20 KL underground RCC collection tank at PP-8 (CMP-11) along with suitable acid-proof tile</p> <p>The scope of work includes excavation, design, supply of materials, labor, and complete construction of the specified tank. This also</p>		

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					<p>lining, collection nozzles, top inspection cover, rung ladder to enter the tank.</p> <p>The feeder head for the input point, along with the delivery, vent/level inlet, and drain connections, shall be installed using stainless steel (SS) pipes. These pipes are to be grouted into the existing RCC tank as per the specified requirements.</p>	<p>encompasses the installation of required nozzles for both inlet and outlet, along with a 6-inch-thick lining of acid-proof tiles.</p> <p>The invert level, depth, and all other dimensions of the 20 KL tank are provided in the Exhibit-6. The bidder shall ensure that the tank is constructed as per the specified details outlined in Exhibit 6, which is enclosed as Annexure to this corrigendum.</p> <p>Necessary level indicator sensors are to be provided for seamless operation.</p>
					<p>Foundation for the erection of MS rubber-lined storage tank of 400 KL capacity.</p> <p>Feeder head, delivery, vent/level inlet, and drain connections to be installed using mild steel, rubber-lined fittings.</p>	<p>Scope includes design, supply of all materials, labour for completing the foundation in all respects.</p> <p>The invert level, depth, diameter, and all other relevant dimensions of the 400 KL MS rubber-lined storage tank are provided in the Exhibit 6. The bidder shall ensure that the tank is</p>

Sl. No	Page No	Title	Clause No	For	Read as
					<p>constructed in strict compliance with the specifications and dimensions outlined in Exhibit - 6.</p> <p>Necessary level indicator sensors are to be provided for seamless operation.</p>
					<p>The bidder shall construct a retaining wall around the 20 KL and 400 KL tank locations, extending from the bottom up to 1 meter above ground level.</p> <p>The thickness of the RCC retaining wall, RCC concrete flooring in the setoff area, and the invert level of the retaining wall are provided in Exhibit-6. The bidder shall ensure that all construction complies with the specifications and dimensions outlined in Exhibit - 6.</p>
					<ol style="list-style-type: none"> 1. Retaining wall to be constructed to the height of 1 m all around the perimeter of the proposed Pit (can be a brick wall) 2. Wired fencing above the retaining wall shall be laid (grouted) using ISA 75x75x6 angles, spanning 1.2m x 1.2m. The fencing will include 6mm horizontal cross wires with a 300mm pitch 3. The pit shall be accessed via an elevated breakroom from the road to prevent rainwater ingress into the pit.

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						<p>4. Elevated room dimensions 1.2 m * 1.2m * 3.2m with brick masonry and the top shall be powder coated sheet.</p> <p>5. Room can be elevated from the ground to 300 mm</p> <p>6. Pit shall have rainwater or an overflow collection pit at the bottom and the same can be below the staircase.</p> <p>7. Submersible pump with a capacity of 5 Cu.M/hr at a 10m head to be installed for rainwater disposal from the pit to 20KL collection tank.</p> <p>8. Collection pit size 1m x 1m & depth 0.5 m. Pit floor slope towards collection pit.</p>	
5	8	Scope of Work	Table B Mechanical & Piping part 1	To complete the piping with valves, flow meter and On/off valve inside the campus of member units	Scope includes design, supply and installation of all the pipes, fitting, valves, instruments, on-off valves and all accessories	The bidder shall complete the pipe installation with provision for connecting the distribution pipes from the member units	Influent line. The collection point shall be provided as per drawing in Exhibit - 8. The collection point shall be located approximately 1.5 meters inside the boundary line of the respective member units. The collection point must be elevated 2 feet above ground level, with the head closed using a dummy closing.
6	8	Scope of Work	Table B Pump for transferring from 400 KL tank to CETP area Collection Tank	Centrifugal pump of 100 Cu.M/ hr and 60m head	UHMWPE pump-2 nos one working and one standby), vertical glandless pump with suitable motor, push button station and all other accessories	Centrifugal pump of 40 Cu.M/ hr and 40 m head	UHMWPE pump-2 nos (one working and one standby), vertical glandless pump with suitable motor, push button station and all other accessories

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7	8	Scope of Work	Table: D Instrumentation	Complete PLC package with SCADA software (with necessary PC etc)	For collecting and analyzing the information from control room	Removed
				All field instruments as per P&ID	To include the battery limit scope of items inside member units as well	Removed
				Cabling and other accessories	The instruments and on-off valves to be hard-wired to the PLC with suitable junction boxes and cables and other accessories	Removed
				Other accessories	Power supply unit suitable for the instruments and PLC system along with UPS	Removed
				Location	Space will be provided inside the CETP control room for housing this PLC /SCADA	Removed
8	25	Tender Conditions	34. i	<p>i. Wherever the contractor considers that it is necessary to cut through an existing road or track he/she shall submit details to the Engineer-in-charge/ TPPA for approval, a minimum of seven days before such work commences. In the event of cutting a road by the contractor without permission from the Engineer-in-charge/TPPA, the contractor shall pay compensation as claimed by the owner of the road until it is restored at the cost of the erring contractor</p>	<p>The installation must be carried out beneath the road using trenchless drilling technology (horizontal directional drilling (HDD)), ensuring that the existing road structure is not disturbed in any way.</p> <p>In the event that any damage is caused to existing infrastructure during the installation process, the bidder shall be responsible for the full cost of repairs and must restore the damaged infrastructure to its original condition</p>	

Sl. No	Page No	Title	Clause No	For	Read as
					at no additional cost to the project.
9	52	Section – 7 Reference Documents & Drawings	2	Proposed Piping & Instrumentation Drawing (P&ID) are provided Exhibit I & II i. Effluent Transfer from member unit to Pipeline network ii. Effluent transfer from member unit via pipeline network to Neutralisation Tank, facilitated by pumping from collection pit iii. Effluent transfer from member unit to neutralization tank by gravity flow	Removed
10	52	Section – 7 Reference Documents & Drawings	4	Add	Exhibit – 5 Pipeline layout / Networking drawing with invert levels for chamber & pipeline network (refer Annexure 1 of this Corrigendum)
11	52	Section – 7 Reference Documents & Drawings	5	Add	Exhibit – 6 Layout of collection tanks i.e. 20 KL & 400 KL along with combined pit (refer Annexure 2 of this Corrigendum)
12	52	Section – 7 Reference Documents & Drawings	6	Add	Exhibit – 7 P&ID drawing for Collection tanks i.e. 20 KL & 400 KL & Combined Pit (refer Annexure 3 of this Corrigendum)

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13	52	Section – 7 Reference Documents & Drawings	7	Add	Exhibit – 8 Diagram for Effluent Collection Point inside member units (refer Annexure 4 of this Corrigendum)

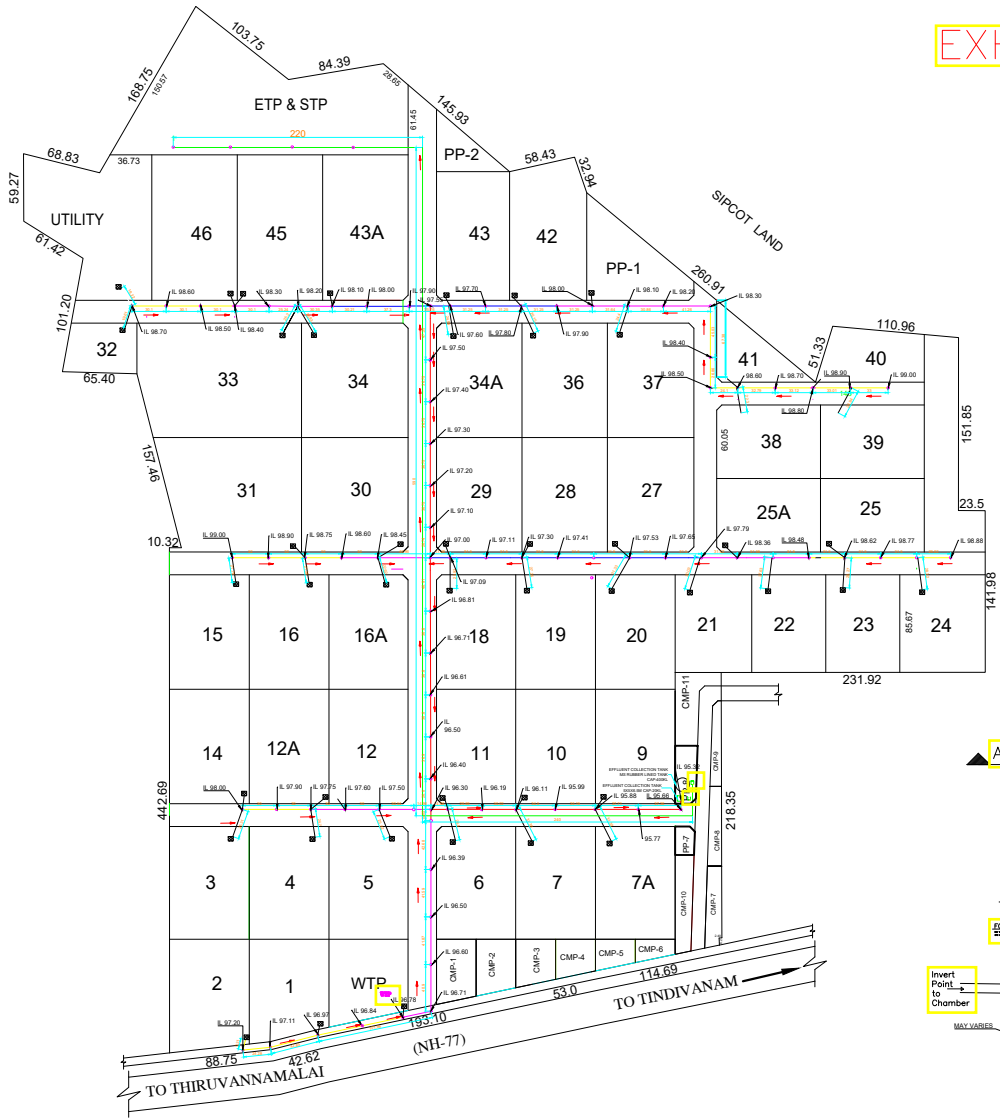
Managing Director

Tindivanam Pharma Park Association

ANNEXURE - 1

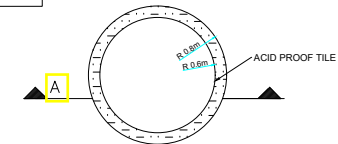
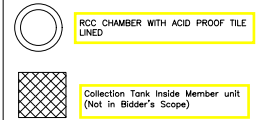
Exhibit – 5 Pipeline layout / Networking drawing with invert levels for chamber & pipeline network

EXHIBIT-5

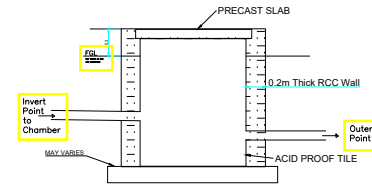


- NOTES:**
1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METER.
 2. GIVEN CHAMBER LOCATIONS ARE TO BE VERIFIED WITH STP DRAWING.
 3. PLEASE PRINT THIS DRAWING IN COLOR MODE ONLY.
 4. INVERT AND OUTWARD PIPE INSIDE CHAMBER TO BE PROVIDED AS PER SITE CONDITIONS.

- LEGEND:**
- 300mm PIPE FROM MEMBER UNIT TO COLLECTION PIT
 - 250mm PIPE FROM MEMBER UNIT TO COLLECTION PIT
 - 200mm PIPE FROM MEMBER UNIT TO COLLECTION PIT
 - 150mm PIPE FROM COLLECTOR PIT TO CETP
 - 100mm PIPE FROM MEMBER UNIT TO COLLECTION PIT



TYPICAL CHAMBER DETAILS



SECTION - A

PIPELINE LAYOUT/NETWORKING DRAWING WITH INVERT LEVELS FOR CHAMBER & PIPELINE NETWORK

NO.	REVISION	DATE	DESCRIPTION	BY	CHKD.	APPD.
1	04.01.25		ISSUED FOR REVIEW & COMMENTS			

TINDIVANAM PHARMA PARK ASSOCIATION
TINDIVANAM, TAMIL NADU, INDIA.

NO.	NAME	DATE	SIGNATURE
1			

SCALE: 1:100
DRAWING NO: P23028_CETP PIPE LINE
DATE: 01/01

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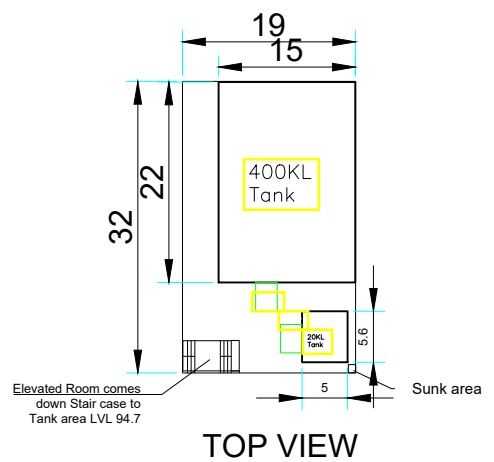
IFCOT LTD. Pharama Park Landmark, 67/77/2002, 4th Floor, TINDIVANAM, INDIA

ANNEXURE - 2

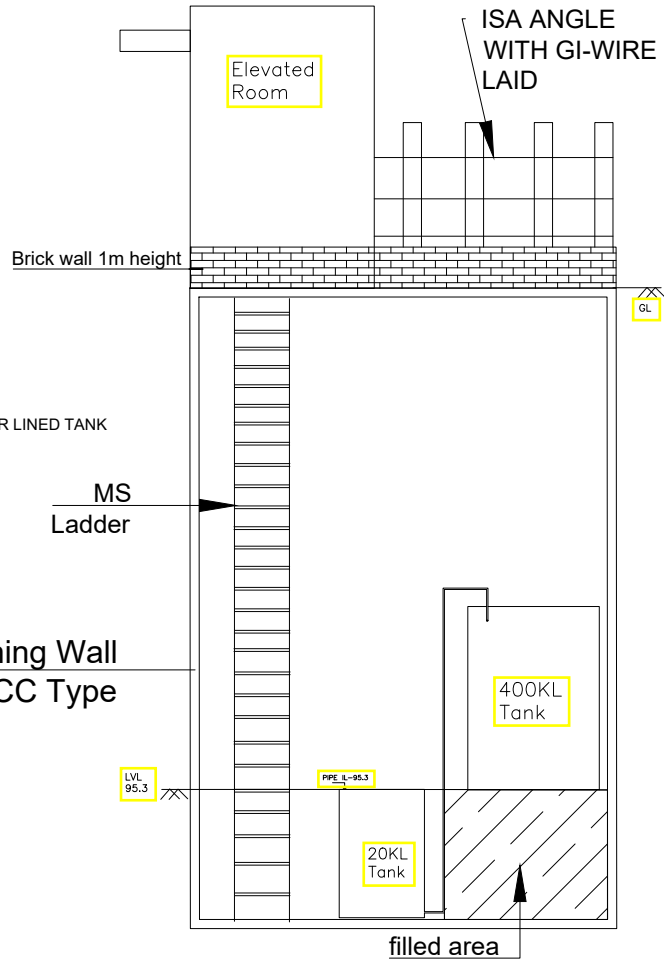
Exhibit – 6 Layout of collection tanks i.e. 20 KL & 400 KL along with combined pit

EXHIBIT-6

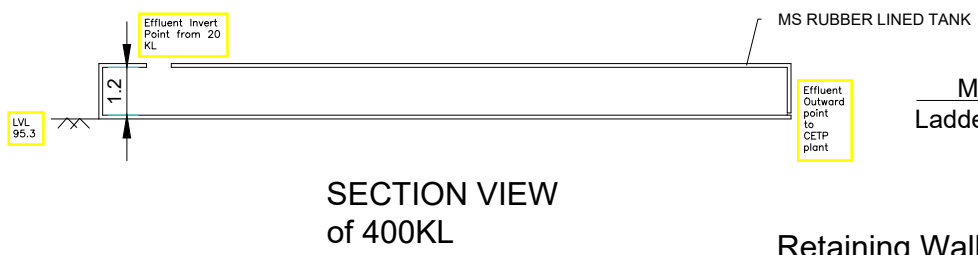
- NOTES :**
1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METER.
 2. RETAINING WALL TO BE HEIGHT OF 1M ALL AROUND THE PERIMETER OF THE PROPOSED PIT (CAN BE BRICK WALL).
 3. WIRED FENCING ABOVE THE RETAINING WALL. ISA 75°75°6 ANGLE TO BE LAID (GROUTED) ON THE WALL TO THE SPAN OF 1.2M x 1.2M AND BARBERED 6MM GI WIRE HORIZONTALLY ACROSS THE FENCING WITH PITCH OF 300MM.
 4. Pit shall have approach from the road through an elevated break room to avoid rainwater ingressment from the ground to pit.
 5. Elevated room dimensions – 1.2M*1.2M*3.2M. Can be brick masonry and top shall be Powder coated sheets. Room can be elevated from ground to 300MM.
 6. Pit shall have rainwater/overflow collection pond at the bottom and the same can be below staircase. Collection pond size 1M*1M and depth 0.5M. Pit Floor slope towards collection pond
 7. Pit collection pond to be equipped with pump and the collection to be pumped out to 20KL tank.
 8. PLEASE PRINT THIS DRAWING IN COLOR MODE ONLY.
 9. NTS (NOT TO SIZE) DEPENDS UPON TANKS AND SITE CONDITION.



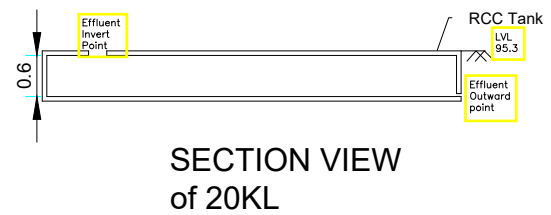
TOP VIEW



SECTION VIEW



SECTION VIEW of 400KL



SECTION VIEW of 20KL

NO.	REVISION	DATE	BY	CHKD	APPD
1	As per layout	03.03.2022			

TINDIVANAM PHARMA PARK ASSOCIATION
 TINDIVANAM, INDIA.

NO.	NAME	DATE	SIGNATURE
1			

LAYOUT OF COLLECTION TANKS
 i.e., 20KL & 400KL ALONG WITH COMBINED PIT

SCALE: 1:100
 DRAWING NO: P23028_CETP PIPE LINE
 SHEET NO: 01/01

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Project Location: Tindivanam, Tamil Nadu, India. Date: 03/03/2022. Scale: 1:100. Sheet No: 01/01.

ANNEXURE - 3

Exhibit – 7 P&ID drawing for Collection tanks i.e. 20 KL & 400 KL & Combined Pit

P-101
 MONO BLOCK SUBMERSIBLE PUMP
 CAPACITY: 5M3/hr @ 10m Head
 MOC: PPUHMWPE

CT-100
 UNDER GROUND TANK
 CAPACITY: 20KL
 MOC: RCC WITH ACID PROOF
 TILES LINED (6MM Thk)

P-102
 CENTRIFUGAL TRANSFER PUMP
 CAPACITY: 10M3/hr @ 20m Head
 MOC: PPUHMWPE

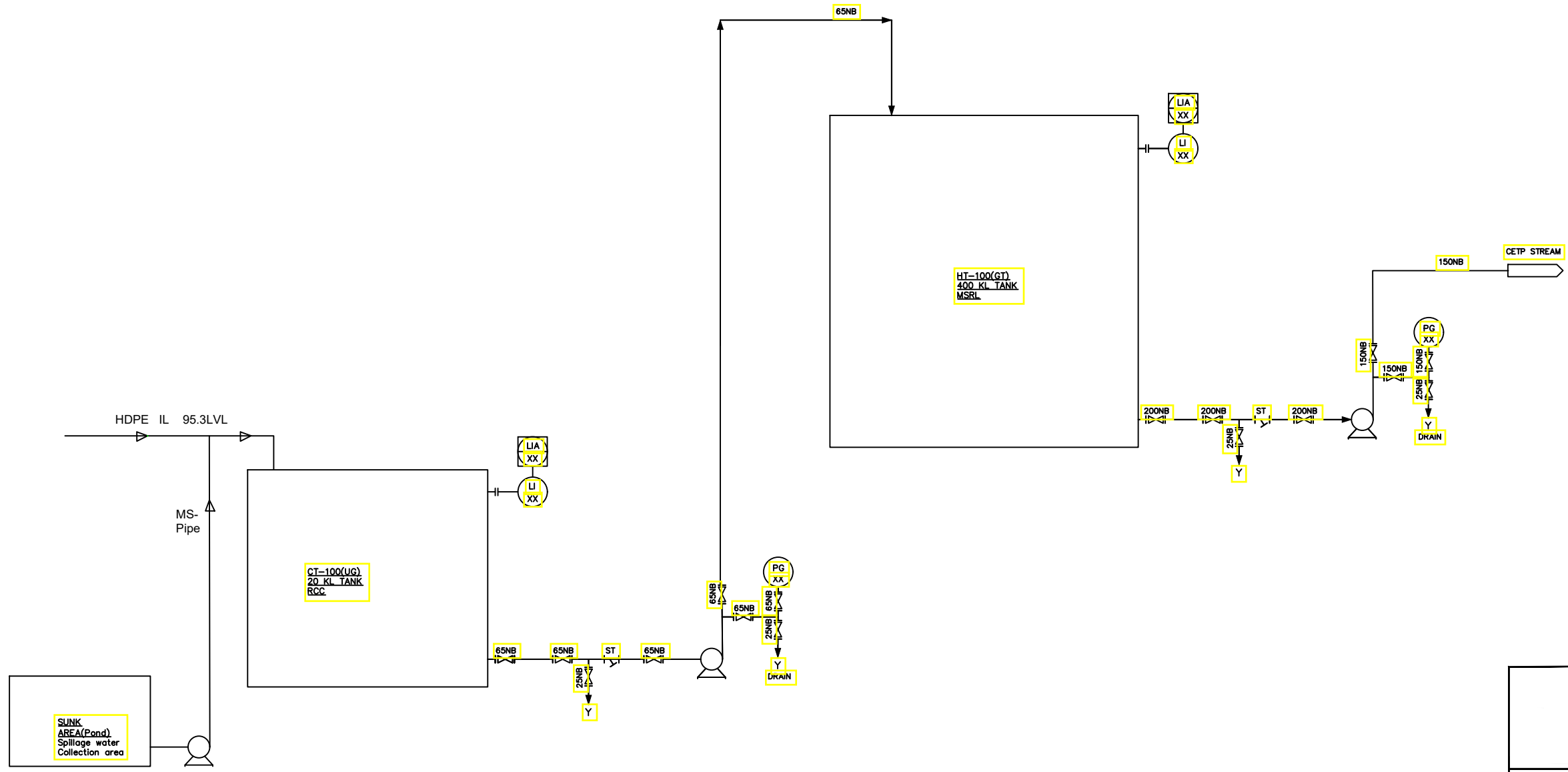
HT-100
 GROUND TANK
 CAPACITY: 400KL
 MOC: MS RUBBER LINED TANK

P-103
 CENTRIFUGAL TRANSFER PUMP
 CAPACITY: 40M3/hr @ 40m Head
 MOC: PPUHMWPE

NOTES:

1. PUMP TO BE OPERATED BETWEEN LOW LEVEL AND HIGH LEVEL.
2. NECESSARY LEVEL SENSOR AND INDICATOR TO BE PROVIDED FOR SEAMLESS OPERATION.

EXHIBIT -7



P&ID Drawing for Collection Tank
 i.e., 20KL & 400KL & Combined Pit

NUMBER	REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	VL	KR	AR
		A	04.01.25	ISSUED FOR REVIEW & COMMENTS			

TINDIVANAM PHARMA PARK ASSOCIATION
 CHENNAI
 TAMIL NADU, INDIA.

NAME	DATE	SIGNATURE
DRAWN		
CHECKED		
APPROVED		
DATE		

SCALE	DRAWING NO.	SHEET	REV. NO.
1:100	P23028_CETP PIPE LINE	01/01	A

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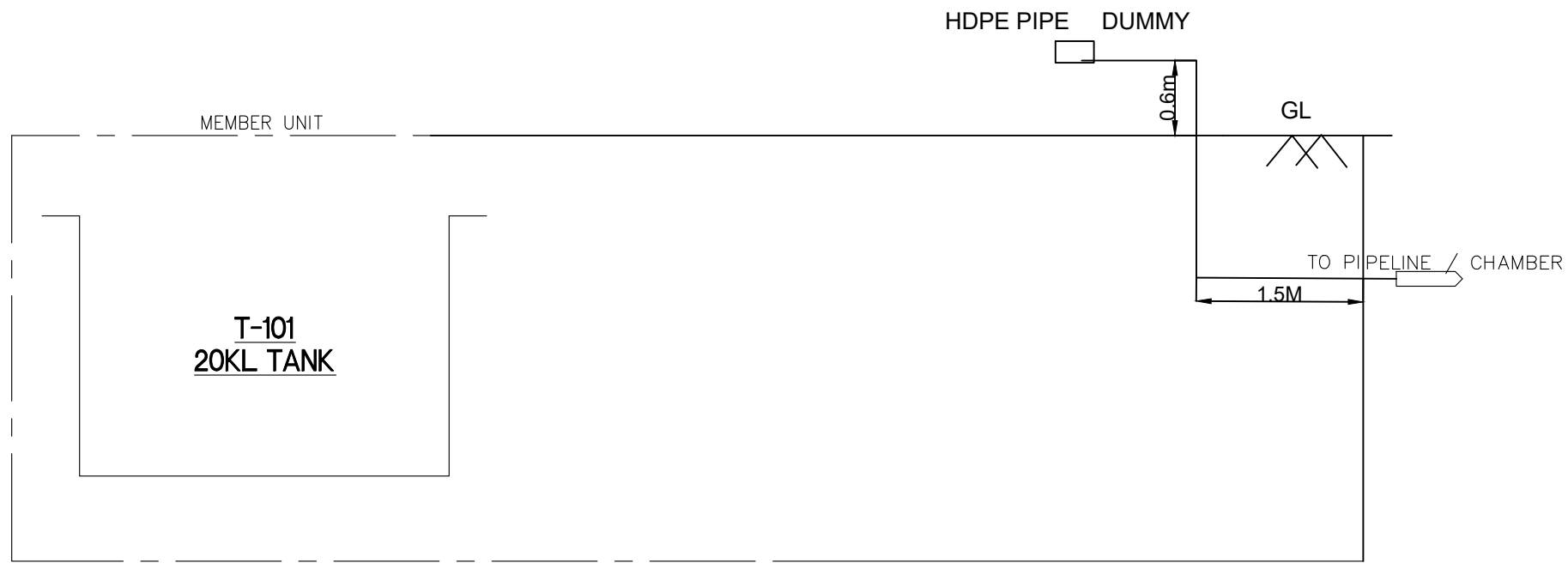
ANNEXURE - 4

Exhibit – 8 Diagram for Effluent Collection Point inside member units

EXHIBIT -8

NOTES:

1. The collection point shall be located approximately 1.5 meters inside the boundary line of the respective units.
2. The collection point must be elevated 2 feet (0.6 meters) above ground level, with the head closed using a dummy closing.



DRAWING FOR EFFLUENT COLLECTION POINT
INSIDE MEMBER UNITS

NUMBER	REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	VL	KR	AR
		A	04.01.25	ISSUED FOR REVIEW & COMMENTS			

TINDIVANAM PHARMA PARK ASSOCIATION
CHENNAI
TAMIL NADU, INDIA.

NAME	DATE	SIGNATURE
DRAWN:		
CHECKED:		
APPROVED:		
DATE:	CETP PIPE LINE	

SCALE: 1:100	DRAWING NO: P23028_CETP PIPE LINE	SHEET: 01/01	REV. NO: A
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