

(4)

BPW-2024-0451

SOLE SOURCE CONTRACT AND PURCHASE ORDER – CAPITAL IMPROVEMENT PROJECT (CIP) 2533 – LINDE PLANTSERV; CONSTRUCTION SERVICES CONTRACT UTILIZATION – CIP 8188

Recommending the Board:

1. AUTHORIZE the Director of the Bureau of Sanitation (BOS) to request the Department of General Services (GSD) to purchase three Liquid Oxygen (LOX) Transfer Pump Skids and one Liquid Nitrogen (LIN) Transfer Pump Skid and Analytical Upgrades at the Cryogenic (CRYO) Oxygen Generating Facility at the Hyperion Water Reclamation Plant (HWRP) for an amount not-to-exceed \$4,373,000, including engineering, taxes, shipping and handling, installation supervision and training for the CIP 2533 HWRP CRYO Facility LOX and LIN Pump Skids Project;
2. AUTHORIZE the Director of BOS to request GSD to create a sole-source One-Time Purchase Order for the vendor Linde PlantServ for the purchase of the aforementioned items; and
3. AUTHORIZE the Director of BOS to request the City Engineer to use Construction Services Contract and to issue task work orders to the contractor for an amount not-to-exceed \$3,607,000 for the CIP 8188 HWRP CRYO Facility LOX and LIN Pump Skids Installation Project.

(W.O. SZH12250, SZH12231)

DEPARTMENT OF PUBLIC WORKS

BUREAU OF SANITATION
BUREAU OF ENGINEERING
JOINT BOARD REPORT NO. 2
AUGUST 2, 2024

CD: 11

CAPITAL IMPROVEMENT PROJECT 2533 HYPERION WATER RECLAMATION PLANT CRYOGENIC FACILITY LIQUID OXYGEN AND LIQUID NITROGEN PUMP SKIDS PROCUREMENT - AUTHORIZATION TO SOLE SOURCE LINDE PLANTSERV AND ISSUE ONE TIME PURCHASE ORDER (WORK ORDER NO. SZH12250) AND CAPITAL IMPROVEMENT PROJECT 8188 HYPERION WATER RECLAMATION PLANT CRYOGENIC FACILITY LIQUID OXYGEN AND LIQUID NITROGEN PUMP SKIDS INSTALLATION-AUTHORIZATION TO UTILIZE CONSTRUCTION SERVICES CONTRACT (WORK ORDER NO. SZH12231)

RECOMMENDATIONS

1. Authorize the Director and General Manager of LA Sanitation and Environment (LASAN) to request the Department of General Services (GSD) to purchase three Liquid Oxygen (LOX) Transfer Pump Skids and one Liquid Nitrogen (LIN) Transfer Pump Skid and Analytical Upgrades at the Cryogenic (CRYO) Oxygen Generating Facility at the Hyperion Water Reclamation Plant (HWRP) for an amount not-to-exceed \$4,373,000, including engineering, taxes, shipping and handling, installation supervision and training for the Capital Improvement Project (CIP) 2533 HWRP CRYO Facility LOX and LIN Pump Skids project.
2. Authorize the Director and General Manager of LASAN to request GSD to create a sole-source One-Time Purchase Order for the vendor Linde PlantServ for the purchase of the aforementioned items.
3. Authorize the Director and General Manager of LASAN to request the City Engineer to use Construction Services Contract (CiSCo) and to issue task work orders (TWOs) to the contractor for an amount not-to-exceed \$3,607,000 for the CIP 8188 HWRP CRYO Facility LOX and LIN Pump Skids Installation project.

FISCAL IMPACT STATEMENT

There is no impact to the General Fund

TRANSMITTALS

1. RQN 82 240000700875 1 for the purchase of three LOX Transfer Pump Skids and one LIN Transfer Pump Skid and Analytical Upgrades at the CRYO Oxygen Generating Facility at the HWRP with an amount not-to-exceed \$4,373,000, including services consisting of shipping and handling, engineering, installation supervision, start-up assistance, performance testing and training.

PAGE 2

DISCUSSION

HWRP is the largest of the four water reclamation plants operated by LASAN. HWRP receives approximately 260 million gallons of wastewater per day and uses physical, chemical and biological processes to remove pollutants and produce effluent that is safe to discharge to the Santa Monica Bay.

HWRP uses high purity oxygen activated sludge (HPOAS) in its secondary treatment process to biologically remove the remaining suspended, colloidal and dissolved organics left after primary treatment. HWRP maintains an on-site CRYO Facility in which compressed air is cooled, purified and distilled into its main component parts: oxygen and nitrogen. The CRYO Facility supplies between 210 to 230 tons of high purity oxygen per day to the HPOAS reactors.

HWRP has three CRYO Coldboxes, which are distillation boxes that separate air into oxygen and nitrogen, and each with an associated LOX Transfer Pump Skid that sends excess LOX produced by the Coldbox to the LOX Storage Tanks. Without the LOX Transfer Pump Skids, there is no means to transport excess LOX from the Cold boxes to the Storage Tanks for use when there is high demand. Without LOX Storage, HWRP would need to rely on off-site LOX purchases and deliveries, which are unreliable and costly.

Additionally, HWRP has one LIN Transfer Pump Skid which transfers stored LIN from the LIN Storage Tank to the Coldboxes to assist with the air separation process. Without LIN, the Coldboxes would be unable to adequately cool the compressed processed air and produce LOX.

The CRYO Facility was constructed in 1995. The LOX and LIN Transfer Pump Skids are original equipment, and they have exceeded their useful lives. The on-going wear and tear and maintenance is high, and new redesigned pump skids will reduce downtime and maintenance frequencies (Figure 1). The new Skids will be redesigned as packaged units, with protection from both CRYO and ocean corrosion conditions and with updated controls and instrumentation. The packaged units will be designed and delivered with pumps, piping, instrumentation, controls system, and insulation for in-place replacement. The packaged units will extend the useful life of the CRYO Facility.

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Figure 1: Existing LOX Pump Skid, LIN Pump Skid, Piping inside Pipe Skids

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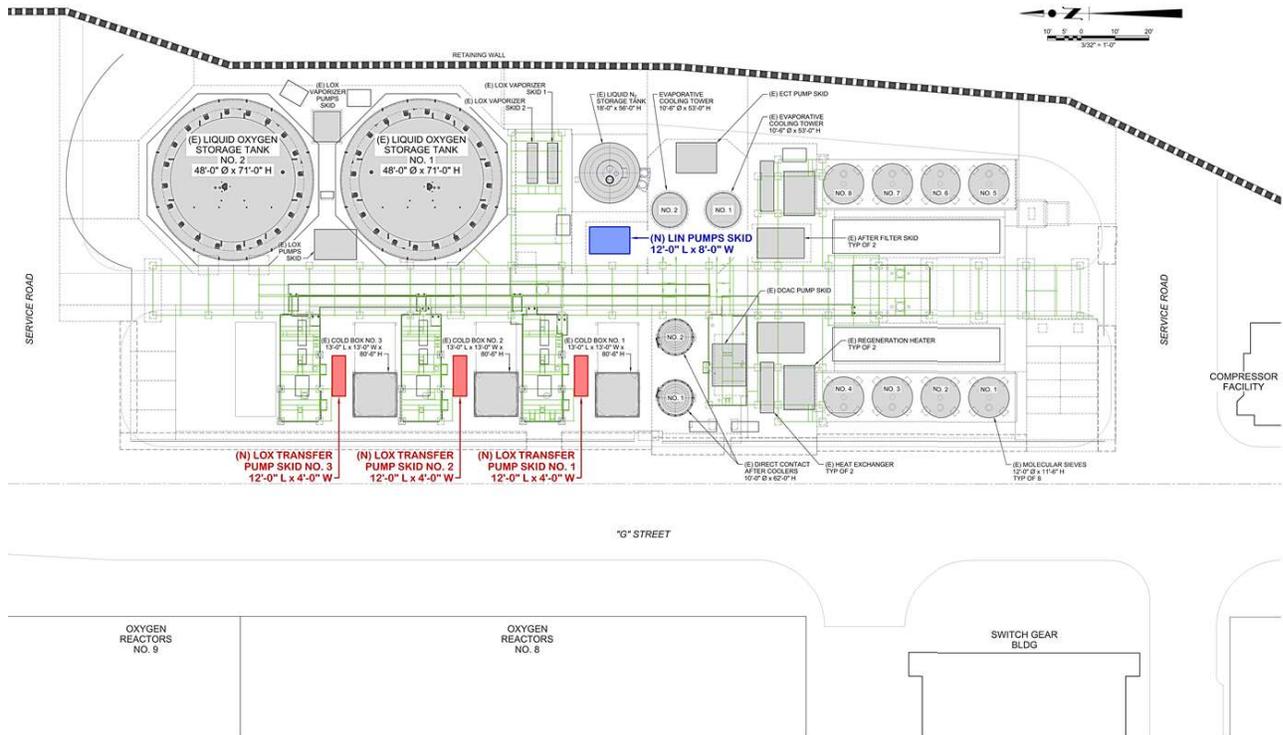


Figure 2: CRYO Oxygen Generating Facility
LOX and LIN Pump Skids shown in red and blue (CIP 2533)
 LOX Transfer Pump Skid Cold Box No. 1
 LOX Transfer Pump Skid Cold Box No. 2
 LOX Transfer Pump Skid Cold Box No. 3
 LIN Pumps Skid
 LOX and LIN piping inside skids

(Continued on next page)

Sole-Source Procurement

HWRP CRYO Facility LOX and LIN Pump Skids Procurement (CIP 2533)

LASAN is requesting approval for the Director and General Manager of LASAN to request the GSD to award a sole-source One-Time Purchase Order to procure the LOX and LIN Pump Skids, Analytical Upgrades and services consisting of shipping and handling, engineering, installation supervision, start-up assistance, performance testing and training from the Linde PlantServ for the following reasons:

- Necessity of acquiring unique and specialized equipment and services supplied by Linde PlantServ who has the exclusive right to manufacture these items to provide for replacement for the Linde HWRP CRYO Facility and will guarantee warranty replacement.
- Linde is the original designer and supplier of the HWRP CRYO Facility and the manufacturer of the LOX and LIN Pump Skids. Sole sourcing Linde PlantServ will provide for seamless upgrade and the extension of the CRYO Facility's useful life.
- This is highly specialized work requiring expert knowledge in CRYO oxygen generation. The LOX and LIN Pump Skids are responsible for operation of the system and contain specific hardware to ensure smooth and trouble-free operation. Sole sourcing Linde PlantServ will provide for seamless replacement.
- The new LOX and LIN Pump Skids will be designed by Linde PlantServ for replacement in place and integration within the existing CRYO Facility. Linde PlantServ will deliver a packaged unit, complete with instrumentation, piping, insulated local control panel and controls system for integration with existing systems. This will provide for the most efficient upgrade.
- Single point of responsibility: Linde PlantServ will also provide installation supervision, start-up assistance, performance testing and training. Linde PlantServ will be responsible for the complete integrated system with new LOX and LIN Pump Skids and Analytical Upgrades.

Installation Utilizing Construction Services Contract (CISCO)

HWRP CRYO Facility LOX and LIN Pump Skids Installation (CIP 8188)

To implement the project, the City Engineer will use CiSCo and to issue TWOs to the Contractor for the CIP 8188 HWRP CRYO Facility LOX and LIN Pump Skids installation.

LASAN's HWRP Linde CRYO Facility must always remain in operation. The Bureau of Engineering (BOE) intends to issue negotiated TWOs to the CiSCo Contractor for step-by-step sequential installation. Sequential removal, replacement of LOX and LIN Pumps skids, piping inside skids, and analytical upgrades are all driven by plant operations (Figure 3). The projected duration for the completion of the work is up to 16 weeks for each pump skid with up to 8-16 weeks for functional testing, start-up, and performance testing. Carrying out this highly specialized work under an accelerated schedule while meeting operational requirements would be very challenging under a conventional bid and award process. Using the CiSCo contract for the work in the critical pure oxygen and nitrogen environment, partnered with the LASAN HWRP Operations and Maintenance team, and Linde PlantServ's technical experts will make it possible to deliver the project in a timely and effective manner.

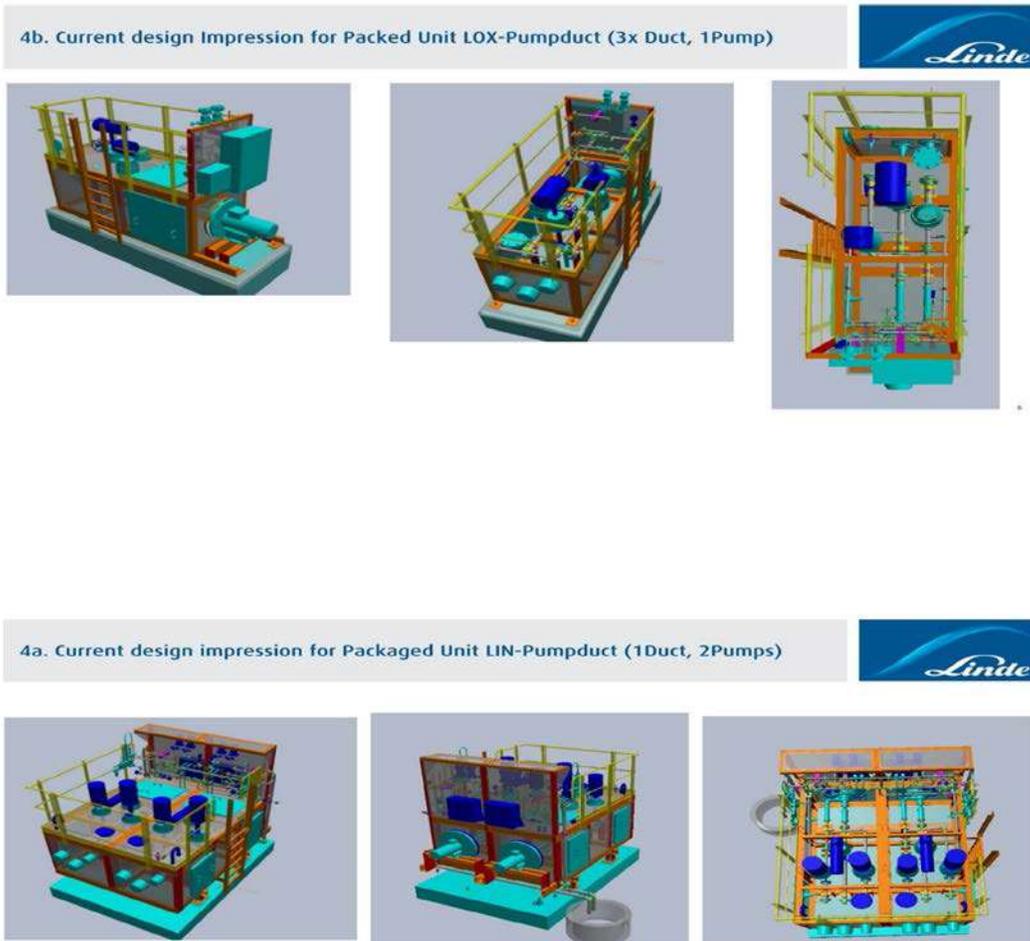


Figure 3: Linde Design Concepts LOX and LIN Pump Skids

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PROGRAM REVIEW BY COMMITTEE (PRC) APPROVAL

The project budget was approved by PRC on July 12, 2023 in the amount of \$7,980,000.

STATUS OF FINANCING

CIP 2533 HWRP CRYO Facility LOX and LIN Pump Skids Procurement

There is no impact to the General Fund. The total funding for this project is not to exceed \$4,373,000. Funding in the amount of \$4,373,000 is available in the Fund No. 761, Sewer Capital Fund, Department No. 50, Appropriation Account No. 50YDCJ, HWRP Cryo Facility LOX and LIN.

Existing appropriations may change based on available cash balances. Therefore, funds and appropriations will be determined by the Director and General Manager of LASAN.

Funding as of the date of this Board Report has been verified and approved by the Director of the Office of Accounting subject to terms and conditions and cash availability described above.

The City's liability under this contract shall only be to the extent of the present City appropriation to fund the contract. However, if the City shall appropriate funds for any succeeding years, the City's liability shall be extended to the extent of such appropriation, subject to the terms and conditions of the contract.

CIP 8188 HWRP CRYO Facility LOX and LIN Pump Skids Installation

There is no impact to the General Fund. The total funding for this project is not to exceed \$3,607,000. No funding is required this fiscal year. Funding sources may include, but are not limited to, the Fund No. 70W, Wastewater System Commercial Paper A Construction Fund and Fund No. 70X, Wastewater System Commercial Paper B Construction Fund.

Future appropriations may change based on available cash balances. Therefore, funds and appropriations will be determined by the Director and General Manager of LASAN.

The City's liability under this contract shall only be to the extent of the present City appropriation to fund the contract. However, if the City shall appropriate funds for any succeeding years, the City's liability shall be extended to the extent of such appropriation, subject to the terms and conditions of the contract.

(Signature page follows)

BUREAU OF SANITATION
BUREAU OF ENGINEERING
JOINT BOARD REPORT NO. 2
AUGUST 2, 2024

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Report reviewed by:

BOE (EED)

Report prepared by:

Sereywath Keng, MSc, PE
Phone No. (310) 648-5919
Email: Sereywath.Keng@lacity.org

Respectfully submitted,



BARBARA ROMERO
Director and General Manager
Bureau of Sanitation

REVIEWED AND APPROVED BY:



Sarai Bhaga (Jun 14, 2024 10:11 PDT)

SARAI BHAGA, Chief Financial Officer
Bureau of Sanitation
Date: _____



ENGINEERING
Electronically Signed by Ted
Allen on 2024 10:43:16

Ted Allen, PE
City Engineer
Bureau of Engineering

APPROVED AS TO FUNDS:



MIGUEL DE LA PEÑA, Director
Office of Accounting
761/50/50YDCJ \$4,373,000
Date: 7/03/2024

Questions regarding this report
may be referred to:

Stephen Opot, PhD, PE
Phone No. (310) 648-5323
Email: stephen.opot@lacity.org
and/or

Slavica D. Hammond, PhD, PE, BCEE, ENV SP
Phone No. (310) 699-8158
Email: slavica.hammond@lacity.org

CITY OF LOS ANGELES

TRANSMITTAL NO. 1



DRAFT

REQUISITION

Requisition Number	Record Date
RQN 82 240000700875 1	
Currently Assigned To	Requester
	Mushtaq Syed (310) 648-5054 Mushtaq.Syed@lacity.org
Ship To	Issuer
LASAN - HYPERION TREATMT PLANT 12000 VISTA DEL MAR PLAYA DEL REY, CA 90293	Laura Pepitune (310) 648-5586 Laura.Pepitune@lacity.org
Shipping Additional Info	
Please include PO# on all packing slips and invoices Freight bills must accompany the invoice when freight bill is >= \$75 Off-peak delivery and pick-up hours/delivery instructions: Receiving department contact Receiving Desk (310)648-5117. Delivery hours: Monday-Thursday 6:00-2:30; Friday 6:00-2:00	

Line Items

Line	Commodity Code	CL Description	Quantity	UOM	Unit Price	Line Total
1	40151500	Mat'l/Parts for Cryo Cold Box LOXTransfer Pumps and LIN Inje	1	EA	\$1,052,000.00	\$1,052,000.00
Extended Description: Misc Pumps						
2	93141812	Labor Engineering Munich: For Cryo ColdBox LOX Transfer Pump	1	EA	\$1,447,600.00	\$1,447,600.00
Extended Description: Labor inspection services						
Desired Date: 12-12-23						
3	93141812	Labor Engineering North America: ForCryo cold Box LOX Transf	1	EA	\$243,000.00	\$243,000.00
Extended Description: Labor inspection services						
Desired Date: 12-12-23						
4	93141812	Site Services:For Cryo cold Box LOXTransfer Pumps and LIN In	1	EA	\$580,000.00	\$580,000.00
Extended Description: Labor inspection services						
Desired Date: 12-12-23						
5	40151500	Mat'l/Parts for Analytical upgrade ofCryo cold Box LOX Trans	2	EA	\$240,500.00	\$481,000.00
Extended Description: Misc Pumps						
Desired Date: 12-12-23						
6	93141812	Labor Engineering Munich: For Cryo coldBox LOX Transfer Pump	2	EA	\$22,000.00	\$44,000.00
Extended Description: Labor inspection services						
Desired Date: 12-12-23						
7	93141812	Labor Engineering North America: ForCryo cold Box LOX Transf	2	EA	\$22,100.00	\$44,200.00
Extended Description: Labor inspection services						
Desired Date: 12-12-23						

Line	Commodity Code	CL Description	Quantity	UOM	Unit Price	Line Total
8	93141812	Supervision: For Cryo cold Box LOXTransfer Pumps and LIN I	2	EA	\$11,000.00	\$22,000.00
Extended Description: Labor inspection services Desired Date: 12-12-23						
9	78121601	Freight: for Mat'l/Parts for cryo coldbox LOX transfer pumps	1	EA	\$76,500.00	\$76,500.00
Extended Description: Freight loading and unloading Desired Date: 12-12-23						
10	78121601	Freight: for Mat'l/Parts for Analyticalupgrade of cryo cold	2	EA	\$4,000.00	\$8,000.00
Extended Description: Freight loading and unloading Desired Date: 12-12-23						

Total Requisition Amount: \$3,998,300.00

ADOPTED BY THE BOARD
PUBLIC WORKS OF THE CITY
of Los Angeles California

DEPARTMENT OF PUBLIC WORKS

BUREAU OF SANITATION
BUREAU OF ENGINEERING
JOINT BOARD REPORT NO. 2
AUGUST 2, 2024

AUG 02 2024


Executive Officer
Board of Public Works

CD: 11

CAPITAL IMPROVEMENT PROJECT 2533 HYPERION WATER RECLAMATION PLANT CRYOGENIC FACILITY LIQUID OXYGEN AND LIQUID NITROGEN PUMP SKIDS PROCUREMENT - AUTHORIZATION TO SOLE SOURCE LINDE PLANTSERV AND ISSUE ONE TIME PURCHASE ORDER (WORK ORDER NO. SZH12250) AND CAPITAL IMPROVEMENT PROJECT 8188 HYPERION WATER RECLAMATION PLANT CRYOGENIC FACILITY LIQUID OXYGEN AND LIQUID NITROGEN PUMP SKIDS INSTALLATION-AUTHORIZATION TO UTILIZE CONSTRUCTION SERVICES CONTRACT (WORK ORDER NO. SZH12231)

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FISCAL IMPACT STATEMENT

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TRANSMITTALS

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The CRYO Facility was constructed in 1995. The LOX and LIN Transfer Pump Skids are original equipment, and they have exceeded their useful lives. The on-going wear and tear and maintenance is high, and new redesigned pump skids will reduce downtime and maintenance frequencies (Figure 1). The new Skids will be redesigned as packaged units, with protection from both CRYO and ocean corrosion conditions and with updated controls and instrumentation. The packaged units will be designed and delivered with pumps, piping, instrumentation, controls system, and insulation for in-place replacement. The packaged units will extend the useful life of the CRYO Facility.

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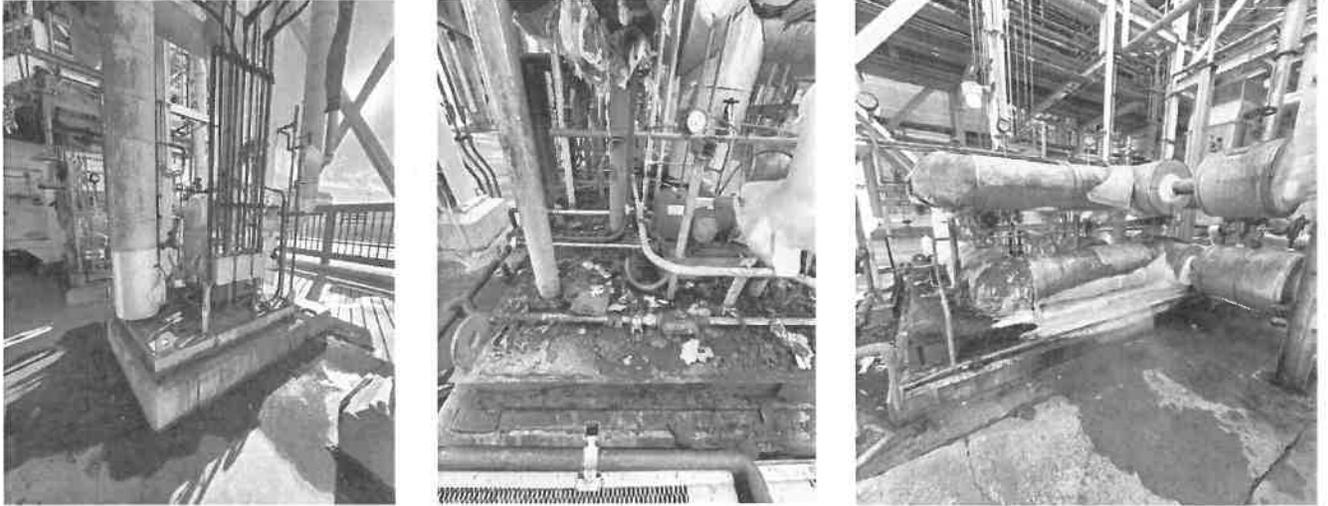


Figure 1: Existing LOX Pump Skid, LIN Pump Skid, Piping inside Pipe Skids

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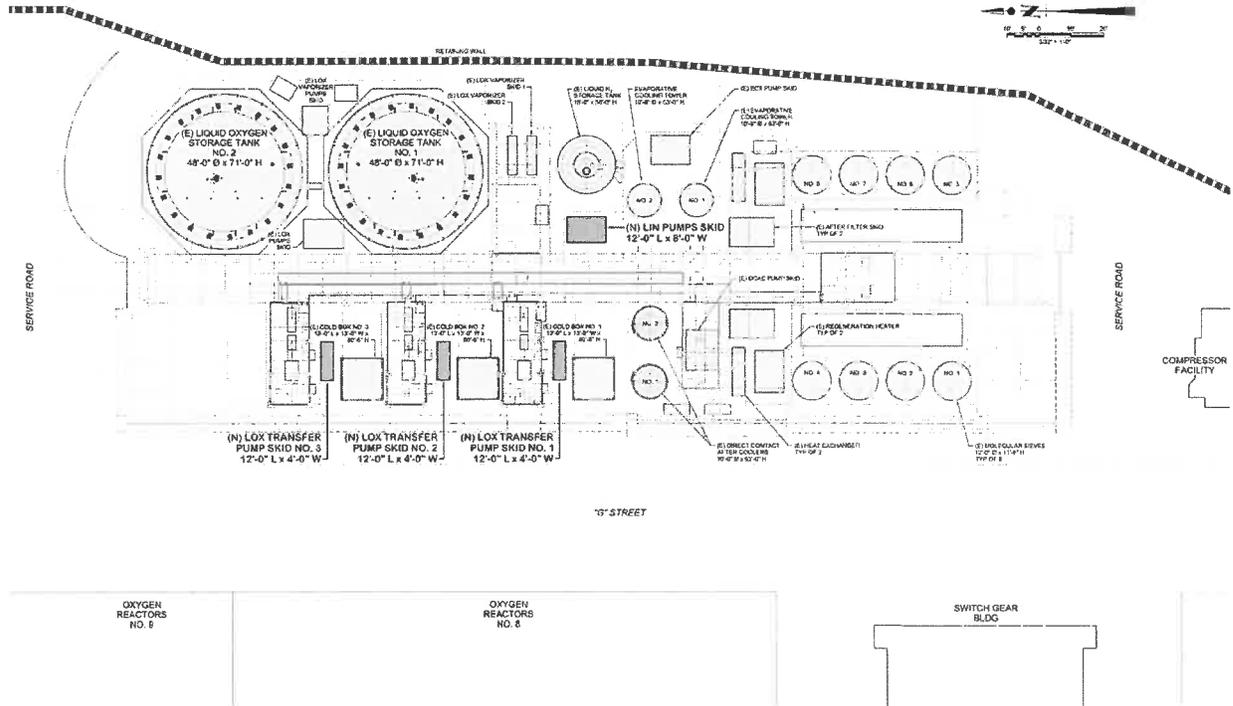


Figure 2: CRYO Oxygen Generating Facility
LOX and LIN Pump Skids shown in red and blue (CIP 2533)
 LOX Transfer Pump Skid Cold Box No. 1
 LOX Transfer Pump Skid Cold Box No. 2
 LOX Transfer Pump Skid Cold Box No. 3
 LIN Pumps Skid
 LOX and LIN piping inside skids

(Continued on next page)

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HWRP CRYO Facility LOX and LIN Pump Skids Procurement (CIP 2533)

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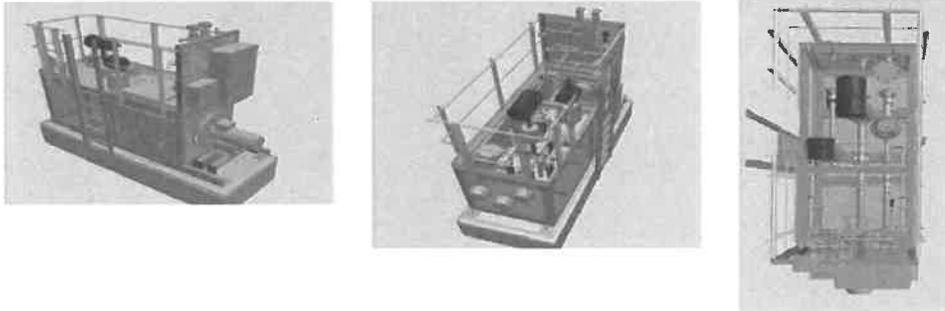
Installation Utilizing Construction Services Contract (CISCO)

HWRP CRYO Facility LOX and LIN Pump Skids Installation (CIP 8188)

To implement the project, the City Engineer will use CiSCo and to issue TWOs to the Contractor for the CIP 8188 HWRP CRYO Facility LOX and LIN Pump Skids installation.

LASAN's HWRP Linde CRYO Facility must always remain in operation. The Bureau of Engineering (BOE) intends to issue negotiated TWOs to the CiSCo Contractor for step-by-step sequential installation. Sequential removal, replacement of LOX and LIN Pumps skids, piping inside skids, and analytical upgrades are all driven by plant operations (Figure 3). The projected duration for the completion of the work is up to 16 weeks for each pump skid with up to 8-16 weeks for functional testing, start-up, and performance testing. Carrying out this highly specialized work under an accelerated schedule while meeting operational requirements would be very challenging under a conventional bid and award process. Using the CiSCo contract for the work in the critical pure oxygen and nitrogen environment, partnered with the LASAN HWRP Operations and Maintenance team, and Linde PlantServ's technical experts will make it possible to deliver the project in a timely and effective manner.

4b. Current design Impression for Packed Unit LOX-Pumpduct (3x Duct, 1 Pump)



4a. Current design impression for Packaged Unit LIN-Pumpduct (1 Duct, 2 Pumps)

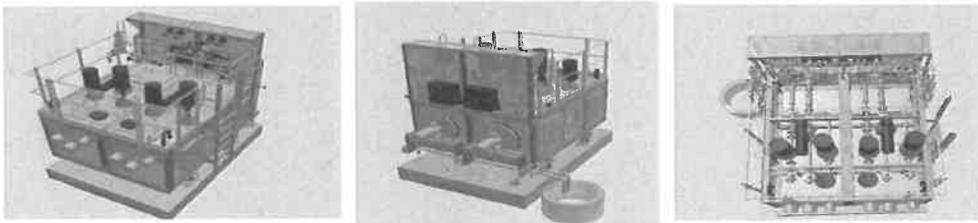


Figure 3: Linde Design Concepts LOX and LIN Pump Skids

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BUREAU OF SANITATION
BUREAU OF ENGINEERING
JOINT BOARD REPORT NO. 2
AUGUST 2, 2024

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PROGRAM REVIEW BY COMMITTEE (PRC) APPROVAL

The project budget was approved by PRC on July 12, 2023 in the amount of \$7,980,000.

STATUS OF FINANCING

CIP 2533 HWRP CRYO Facility LOX and LIN Pump Skids Procurement

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CIP 8188 HWRP CRYO Facility LOX and LIN Pump Skids Installation

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Future appropriations may change based on available cash balances. Therefore, funds and appropriations will be determined by the Director and General Manager of LASAN.

The City's liability under this contract shall only be to the extent of the present City appropriation to fund the contract. However, if the City shall appropriate funds for any succeeding years, the City's liability shall be extended to the extent of such appropriation, subject to the terms and conditions of the contract.

(Signature page follows)

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JOINT BOARD REPORT NO. 2
AUGUST 2, 2024

PAGE 8

Report reviewed by:

BOE (EED)

Report prepared by:

Sereyath Keng, MSc, PE

Phone No. (310) 648-5919

Email: Sereyath.Keng@lacity.org

Respectfully submitted,



BARBARA ROMERO

Director and General Manager

Bureau of Sanitation

REVIEWED AND APPROVED BY:



Sarai Bhaga (Jun 14, 2024 10:11 PDT)

SARAI BHAGA, Chief Financial Officer

Bureau of Sanitation

Date: _____



Ted Allen, PE

City Engineer

Bureau of Engineering

APPROVED AS TO FUNDS:



MIGUEL DE LA PEÑA, Director

Office of Accounting

761/50/50YDCJ \$4,373,000

Date: 7/03/2024

Questions regarding this report
may be referred to:

Stephen Opot, PhD, PE

Phone No. (310) 648-5323

Email: stephen.opot@lacity.org

and/or

Slavica D. Hammond, PhD, PE, BCEE, ENV SP

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