



	<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>				
	<b>LCP and Junction Box Layout,</b> <b>Arrangement and Wiring Drawing for</b> <b>Refrigerator Package</b>		 		
PO No.: GPIC-PT-MA-PO-000-3029	Document Number: VD-GPIC-MA-3029-3029-0046	Rev. 03	<b>Page 1 of 14</b>		

## LCP and Junction Box Layout, Arrangement and Wiring Drawing for Refrigerator Package

<b>Code1</b>	<input checked="" type="checkbox"/> <b>No Comment/ Approved</b> (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
<b>Code2</b>	<input type="checkbox"/> <b>No Comment/ Approved with Note(s)</b> Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
<b>Code3</b>	<input type="checkbox"/> <b>Commented</b> Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing Process.
<b>Code 4</b>	<input type="checkbox"/> <b>Not Accepted (Rejected )</b> Vendor/Sub-Contractor shall re-work / re-design / re-specify the contents of the document according to the comments / reasons for rejection. All corrected documents shall be resubmitted before starting the manufacturing. Vendor/Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments.
<b>No code</b>	<input type="checkbox"/> <b>No Code</b> ( Applicable Only for "For Information" Documents and "As Built DWGs") Document has been submitted for PURCHASER's Information (FI). Consistency, completeness and correctness of document content is in Vendor/Sub-Contractor's responsibility.
Above checking results by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.	
 <b>EIED</b> Energy Industries Engineering & Design co.	<b>Date:</b> May. 11, 2026 <b>Dept.:</b> MA <b>Signature:</b> F.Hamooni

03	29-Apr-26	IFR	A.M	F.T	A.M
02	6-Apr-26	IFR	A.M	F.T	A.M
01	15-Feb-26	IFR	A.M	F.T	A.M
00	14-Jan-26	IFR	A.M	F.T	A.M
<b>Rev.</b>	<b>DATE</b>	<b>PURPOSE OF ISSUE</b>	<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>



**Gachsaran Polymer Industries Company  
HDPE Plant**



**LCP and Junction Box Layout,  
Arrangement and Wiring Drawing for  
Refrigerator Package**



PO No.: GPIC-PT-MA-PO-000-3029

Document Number: VD-GPIC-MA-3029-3029-0046

Rev.  
03

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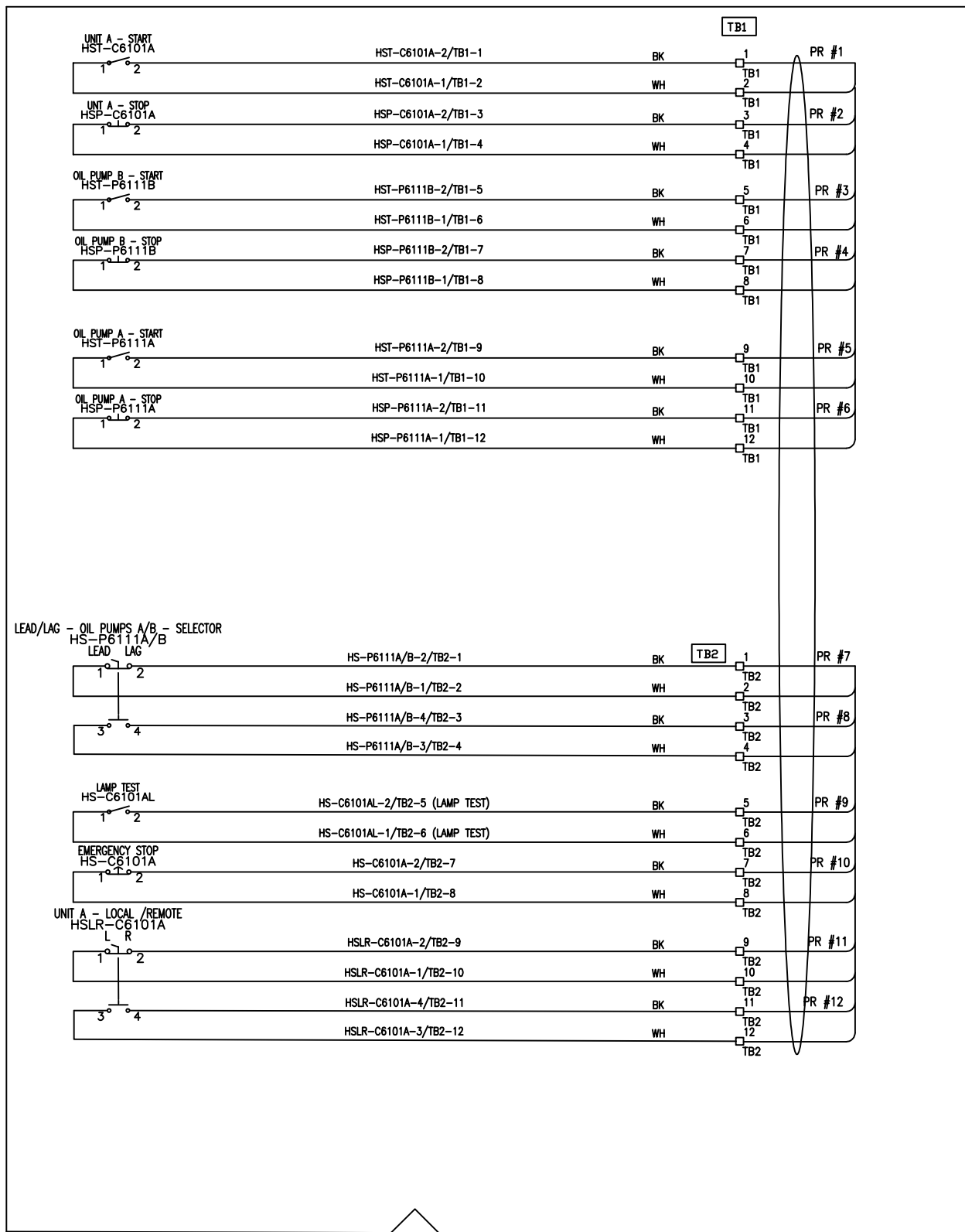
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2	X	X	X	X	
3	X	X	X		
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6	X	X	X	X	
7	X	X	X	X	
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LCP-6101A



NOTE

- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
- AC SUPPLY PHASE: BLACK, WHITE, GREEN, OR W/YELLOW TRACER; NEUTRAL: GREEN; GROUND: GREEN.
- DC SUPPLY POSITIVE: RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN; NEGATIVE: BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN.
- SIGNAL PAIR POSITIVE: BLACK; NEGATIVE: WHITE.
- SINGLE TRIAD POSITIVE: BLACK; NEGATIVE: WHITE; THIRD WIRE: RED.
- THERMOPL POSITIVE: PER ANSI MC96.1; NEGATIVE: PER ANSI MC96.1.
- IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
- SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION.
- DEVICES ARE EX(α) RATED.
- LOCAL PANEL IS EX(α), IIB, T3, IP65 RATED AND MATERIAL IS SS 316 OR ALUMINUM.
- MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
- DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM.
- ENCLOSURE THICKNESS: 1.5 MM.

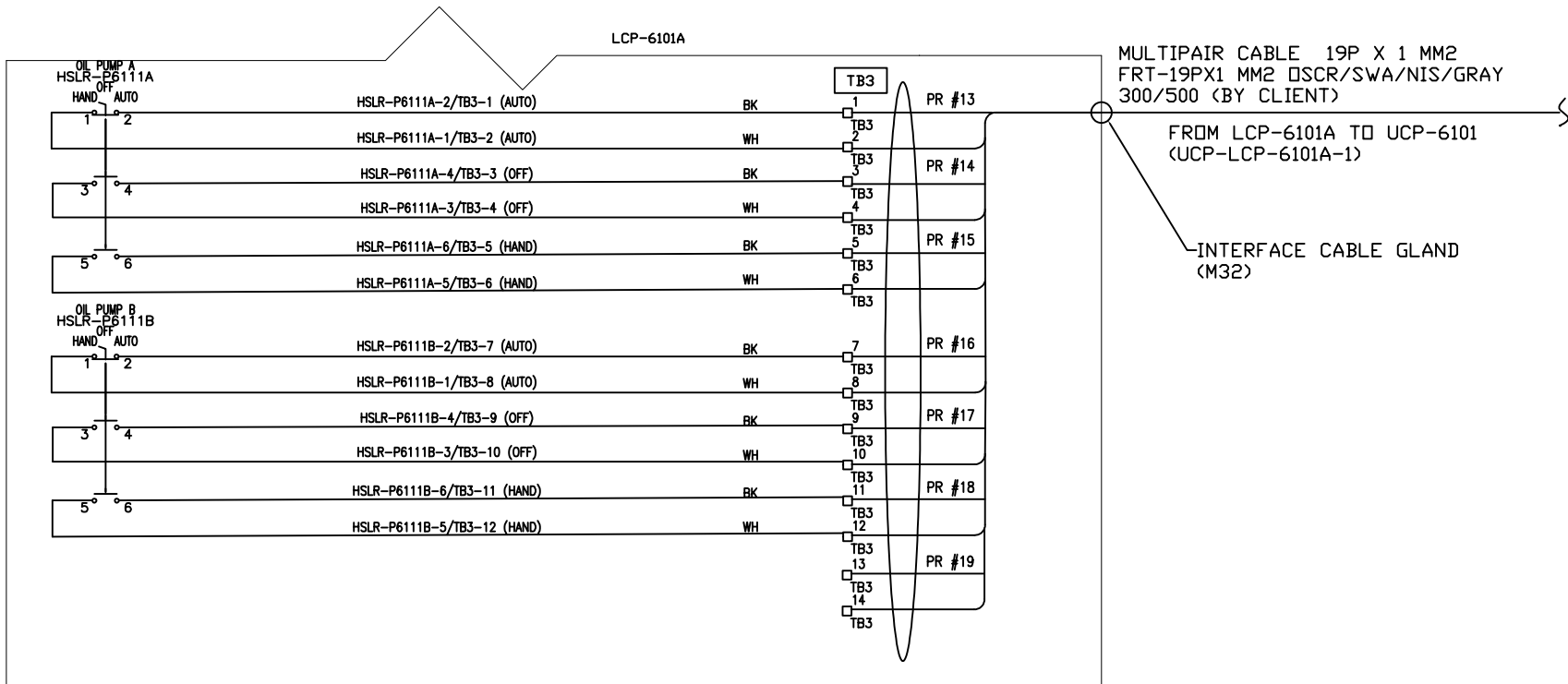
<input type="checkbox"/>	No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
<input type="checkbox"/>	No Comment/ Approved with Note(s) Vendor/Job-Contractor shall correct, revise and resubmit the document, the document is released for Manufacturing if changes incorporated.
<input type="checkbox"/>	Commented Vendor/Job-Contractor shall correct, revise and resubmit the document by the date specified, the document shall be released under the status of "To Be Released". All corrected documents shall be resubmitted before starting the Manufacturing Process.
<input type="checkbox"/>	Not Assessed (Rejected) Vendor/Job-Contractor shall re-work/re-design/re-verify the contents of the document according to the approved reasons for rejection. All corrected documents shall be resubmitted after starting the Manufacturing Process. Vendor/Job-Contractor shall not proceed with subsequent work of material supply or manufacturing until the work is cleared by the Quality Control/Check or the Job from PMS/MSL. Vendor/Job-Contractor shall resubmit the document with the same within 4 working days after receiving comments.
<input type="checkbox"/>	No Check (Only for "For Information" Documents and "To Be Released" Documents) Document has been submitted for PMS/MSL information. (P) Containing compliance and execution of document content is in Vendor/Job-Contractor's responsibility. The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility and of the purchase order and the material agreement in writing.

DATE :  
DEPT :  
Signature :  
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03	29.Apr.26	IFR	R.G	F.T	A.M
02	06.Apr.26	IFR	R.G	F.T	A.M
01	14.Feb.26	IFR	R.G	F.T	A.M
00	12.Jan.26	IFR	R.G	F.T	A.M
REV.	DATE (mm.yyyy)	Purpose of Issue	Prepared	Checked	Approved
		<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>			
		CONTRACT NO.: GPI-CON-99-008			
PO No.: GPIC-PT-MA-PO-000-3029		SCALE: 1:1			
<b>DRAWING TITLE:</b> <b>LCP and Junction Box Layout, Arrangement and Wiring Drawing</b>					
<b>DRAWING NO.</b> VD-GPIC-MA-3029-3029-0046					<b>REV. SHEET NO. SIZE</b> 03 3 OF 14 A3

- 1) INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
- 2) AC SUPPLY PHASE: BLACK, WHITE, GREEN OR GREEN. NEUTRAL: WHITE. GROUND: GREEN OR W/YELLOW TRACER.
- DC SUPPLY POSITIVE: RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN.
- NEGATIVE: BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN.
- SIGNAL PAIR POSITIVE: BLACK. NEGATIVE: WHITE.
- SINGLE TRIAD POSITIVE: BLACK. NEGATIVE: WHITE. THIRD WIRE: RED.
- THERMOCL POSITIVE: PER ANSI MC96.1. NEGATIVE: PER ANSI MC96.1.
- 3) IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
- 4) SKID WIRING SHALL BE ARMORED BRADED CABLE PER MAYEKAWA REQUISITION.
- 5) DEVICES ARE EX(4) RATED.
- 6) LOCAL PANEL IS EX(4), IIB, T3, IP65 RATED AND MATERIAL IS SS 316 OR ALUMINUM.
- 7) MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
- 8) DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM.
- 9) ENCLOSURE THICKNESS: 1.5 MM.



Order	<input type="checkbox"/> No Comment/ Approved	(Applies Only for "For Review" and "For Approval" Documents) No comment and the document is released for Manufacturing
Order	<input type="checkbox"/> No Comment/ Approved with Note(s)	Vendor/Job-Contractor shall correct, review and resubmit the document. The document is released for Manufacturing if changes incorporated.
Order	<input type="checkbox"/> Commented	Vendor/Job-Contractor shall correct, review and resubmit the document by the date specified. The document shall be resubmitted under the status of "Is Issued later". All corrected documents shall be resubmitted before starting the Manufacturing Process.
Order	<input type="checkbox"/> Not Assessed (Rejected)	Vendor/Job-Contractor shall re-work/re-design/re-verify the contents of the document according to the appropriate reasons for rejection. All corrected documents shall be resubmitted before starting the manufacturing process. Vendor/Job-Contractor shall not proceed with installation until the status of the document is "Is Issued later". Vendor/Job-Contractor shall resubmit the document with the same status within 8 working days after receiving comments.
No Check	<input type="checkbox"/> No Check	(Only for "For Information" Documents and "As Built (BAB)" Documents) Document has been submitted for management's information. (It) Combining compliance and verification of document content to the Vendor/Job-Contractor's responsibility.

The above drawing shall be used only in any other Vendor of any facility, obligation and responsibility rest of the purchase order and the material agreement in writing.

DATE: \_\_\_\_\_  
 DEPT: \_\_\_\_\_  
 Signature: \_\_\_\_\_

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BT	BU	PR	SA	HW	TL

03	29.Apr.26	IFR	R.G	F.T	A.M
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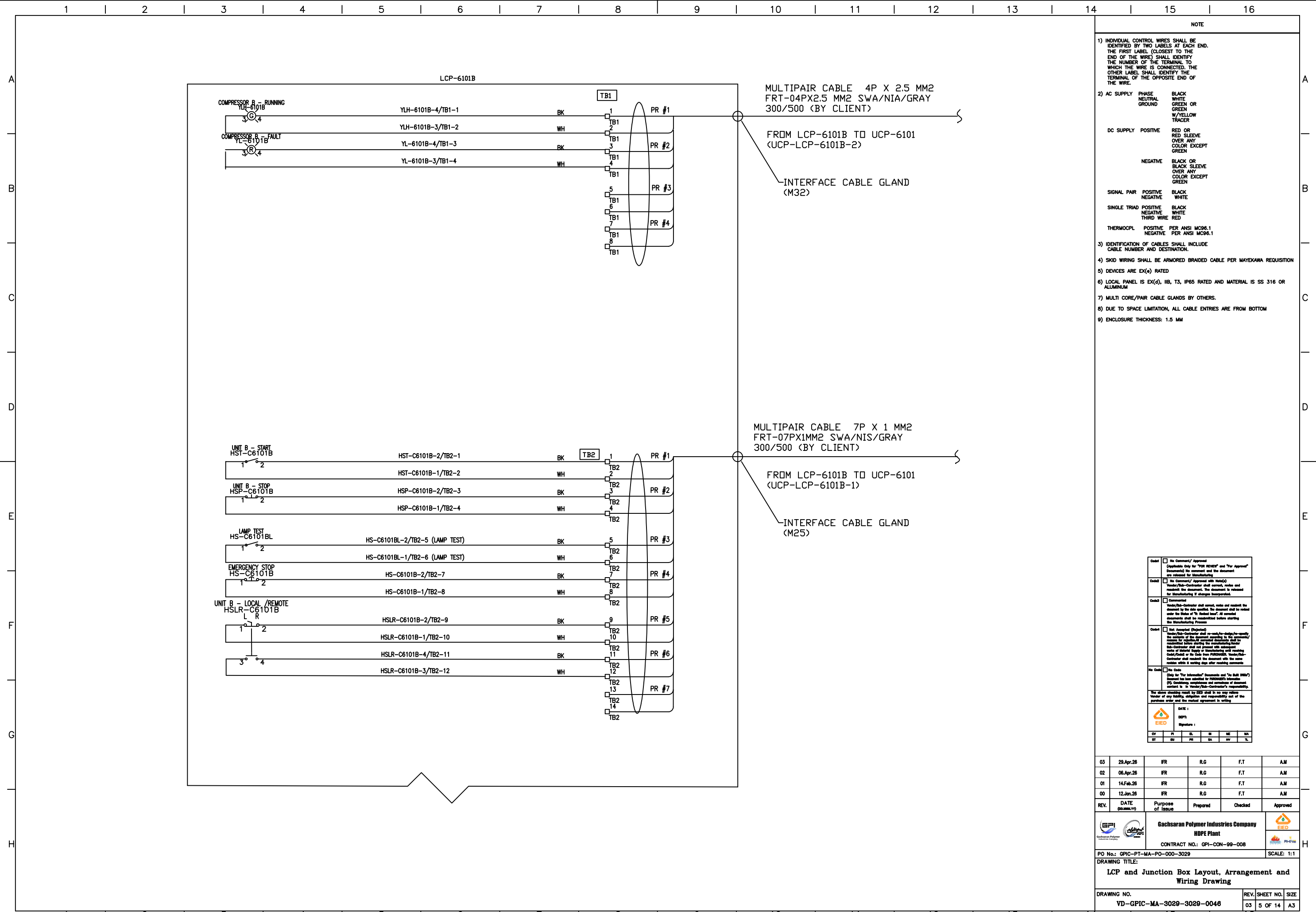
**Gachsan Polymer Industries Company**  
HDPE Plant

CONTRACT NO.: GPI-CON-99-008

PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE:  
**LCP and Junction Box Layout, Arrangement and Wiring Drawing**

DRAWING NO.	REV.	SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0046	03	4 OF 14	A3



NOTE

- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
- AC SUPPLY PHASE: BLACK, WHITE, GREEN OR GREEN, W/YELLOW TRACER. DC SUPPLY POSITIVE: RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN. NEGATIVE: BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN.
- IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
- SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
- DEVICES ARE EX(a) RATED
- LOCAL PANEL IS EX(d), IIB, T3, IP65 RATED AND MATERIAL IS SS 316 OR ALUMINUM
- MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
- DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM
- ENCLOSURE THICKNESS: 1.5 MM

Checked	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "For Review" and "For Approval" Documents) No comment and the document are released for Manufacturing
Checked	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Job-Contractor shall correct, revise and resubmit the document, the document is released for Manufacturing if changes incorporated.
Checked	<input type="checkbox"/> Commented Vendor/Job-Contractor shall correct, revise and resubmit the document by the date specified, the document shall be released under the status of "To Be Released". All corrected documents shall be resubmitted before starting the Manufacturing Process.
Checked	<input type="checkbox"/> Not Assessed (Rejected) Vendor/Job-Contractor shall re-work/re-design/re-verify the contents of the document according to the approved reasons for rejection. All corrected documents shall be resubmitted after clearing the manufacturing issues. Vendor/Job-Contractor shall not proceed with manufacturing until cleared by the client. Vendor/Job-Contractor shall resubmit the document with the same revision within 4 working days after receiving comments.
No Check	<input type="checkbox"/> No Check (Only for "Informational" Documents and "To Be Released" Documents) Document has been submitted for manufacturing information (PI) containing compliance and execution of document content is in Vendor/Job-Contractor's responsibility.

The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility and of the purchase order and the material agreement in writing.

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03	29.Apr.26	IFR	R.G	F.T	A.M
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00	12.Jan.26	IFR	R.G	F.T	A.M

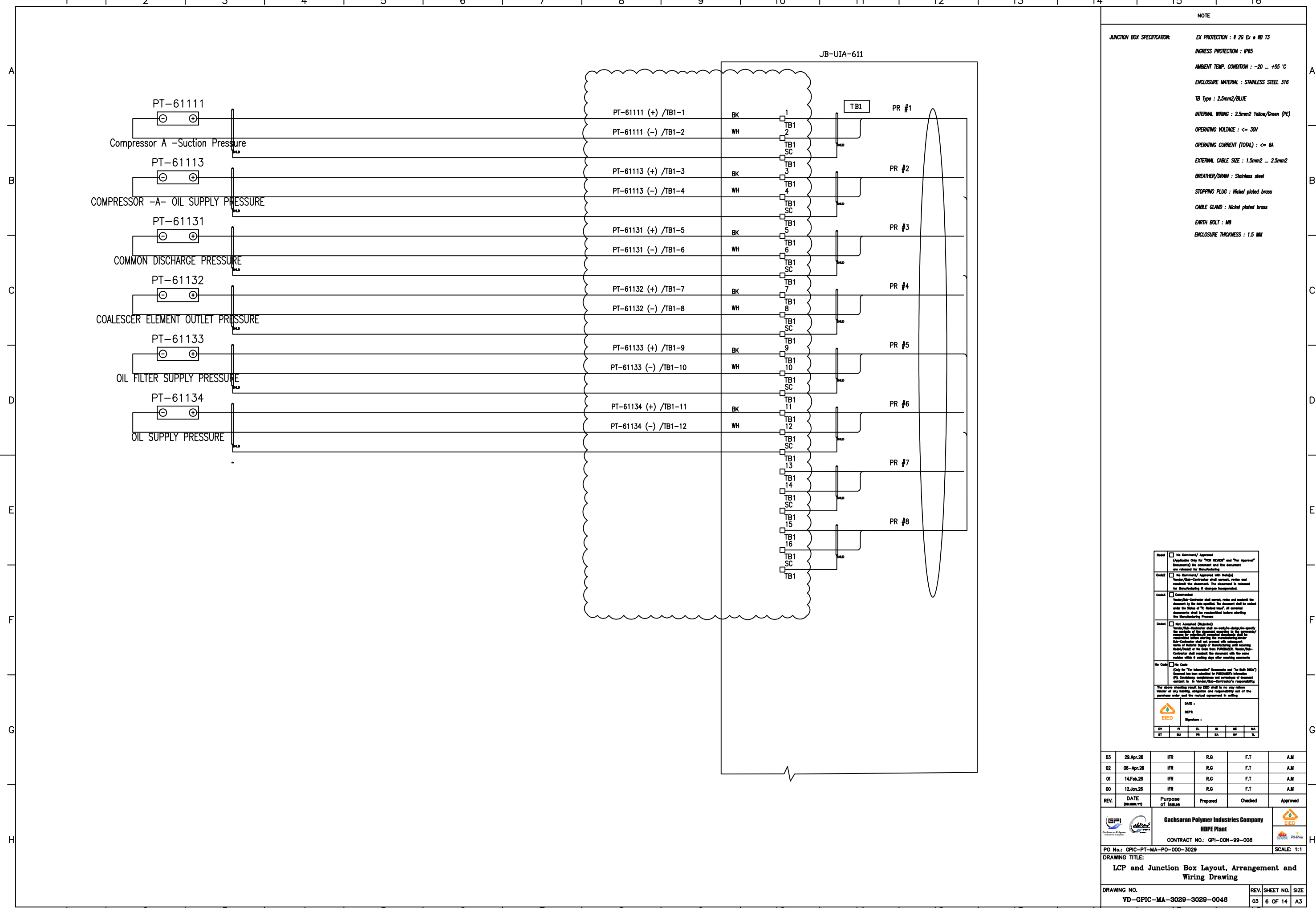
REV.	DATE (DD.MM.YY)	Purpose of Issue	Prepared	Checked	Approved

Gachsaran Polymer Industries Company  
**HDPE Plant**  
 CONTRACT NO.: GPI-CON-99-008

PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE:  
**LCP and Junction Box Layout, Arrangement and Wiring Drawing**

DRAWING NO.	REV. SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0046	03 OF 14	A3



NOTE

JUNCTION BOX SPECIFICATION:

EX PROTECTION : II 2G Ex e IB T3

INGRESS PROTECTION : IP65

AMBIENT TEMP. CONDITION : -20 ... +55 °C

ENCLOSURE MATERIAL : STAINLESS STEEL 316

TB Type : 2.5mm2/BLUE

INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)

OPERATING VOLTAGE : <= 30V

OPERATING CURRENT (TOTAL) : <= 6A

EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2

BREATHER/DRAIN : Stainless steel

STOPPING PLUG : Nickel plated brass

CABLE GLAND : Nickel plated brass

EARTH BOLT : M8

ENCLOSURE THICKNESS : 1.5 MM

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<input type="checkbox"/>	No Comment/ Approved with Note(s) Vendor/Job-Contractor shall correct, revise and resubmit the document, the document is released for Manufacturing if changes incorporated.
<input type="checkbox"/>	Commented Vendor/Job-Contractor shall correct, revise and resubmit the document by the date specified, the document shall be released under the status of "To Be Released", all corrected documents shall be resubmitted before starting the Manufacturing Process.
<input type="checkbox"/>	Not Assented (Rejected) Vendor/Job-Contractor shall re-work/re-design/re-verify the contents of the document according to the appropriate reasons for rejection. All corrected documents shall be re-submitted after starting the manufacturing process. Vendor/Job-Contractor shall not proceed with subsequent work of material supply or manufacturing until receiving "Go-Ahead" or the Code from PMS/IB/IE. Vendor/Job-Contractor shall resubmit the document with the same within 4 working days after receiving comments.
<input type="checkbox"/>	No Check (Only for "For Information" Documents and "To Be Released" Documents) Document has been submitted for PMS/IB/IE information (If) Containing compliance and execution of document content is in Vendor/Job-Contractor's responsibility. The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility and of the purchase order and the material agreement in writing.

DATE :  
DEPT :  
Signature :  
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01	14-Feb-26	IFR	R.G	F.T	A.M
00	12-Jan-26	IFR	R.G	F.T	A.M
REV.	DATE (mm/dd/yyyy)	Purpose of Issue	Prepared	Checked	Approved

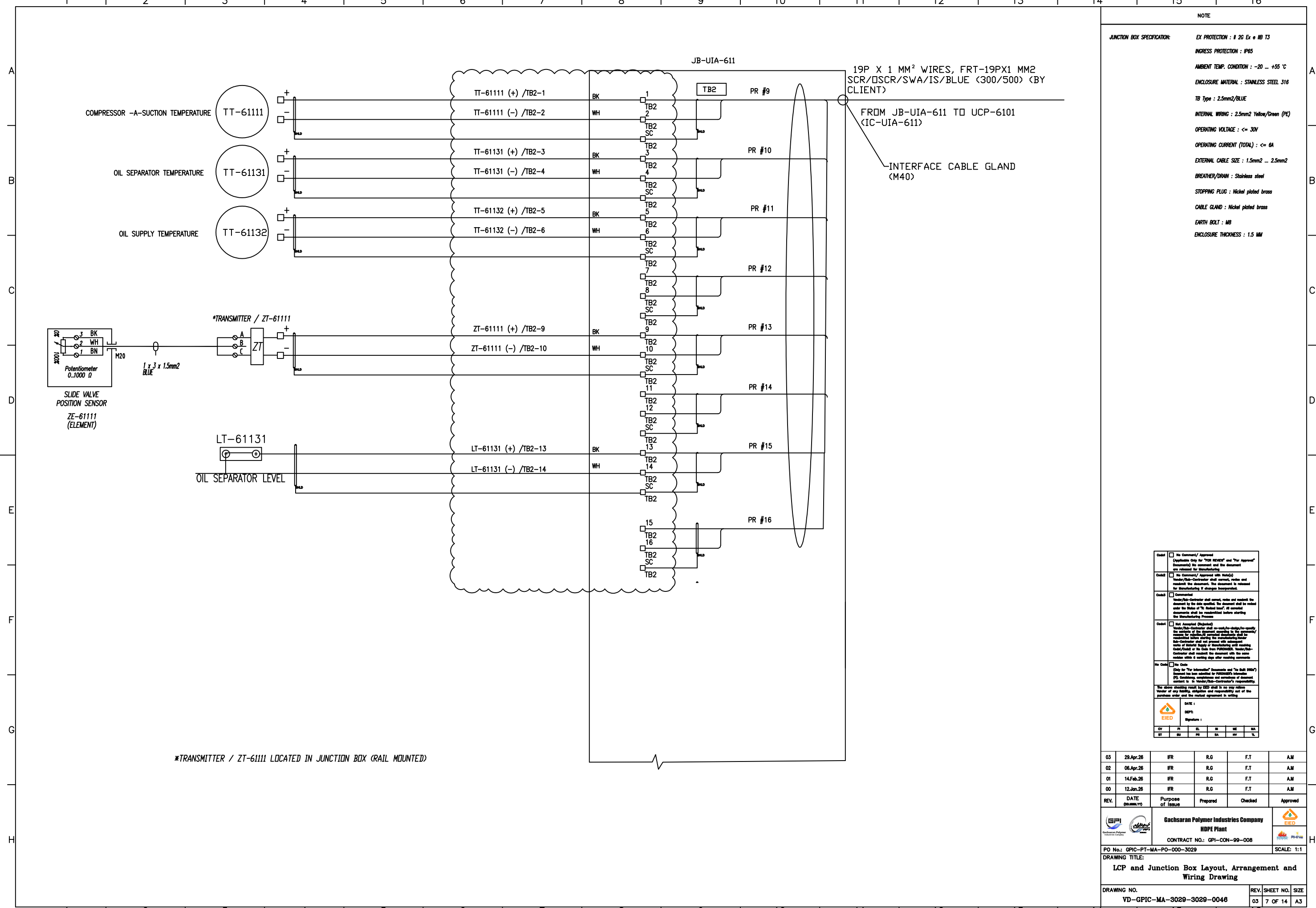
Gachsan Polymer Industries Company  
HDPE Plant

CONTRACT NO.: GPI-CON-99-008

PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE:  
**LCP and Junction Box Layout, Arrangement and Wiring Drawing**

DRAWING NO.	REV. SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0046	03 OF 14	A3



NOTE

JUNCTION BOX SPECIFICATION:

- EX PROTECTION : II 2G Ex e IB T3
- INGRESS PROTECTION : IP65
- AMBIENT TEMP. CONDITION : -20 ... +55 °C
- ENCLOSURE MATERIAL : STAINLESS STEEL 316
- TB Type : 2.5mm2/BLUE
- INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)
- OPERATING VOLTAGE : <= 30V
- OPERATING CURRENT (TOTAL) : <= 6A
- EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2
- BREATHER/DRAIN : Stainless steel
- STOPPING PLUG : Nickel plated brass
- CABLE GLAND : Nickel plated brass
- EARTH BOLT : M8
- ENCLOSURE THICKNESS : 1.5 MM

\*TRANSMITTER / ZT-61111 LOCATED IN JUNCTION BOX (RAIL MOUNTED)

<input type="checkbox"/>	No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing
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<input type="checkbox"/>	No Check (Only for "For Information" Documents and "To Be Released" Documents) Document has been submitted for MANAGEMENT INFORMATION (M) Containing compliance and execution of document content is in Vendor/Job-Contractor's responsibility. The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility and of the purchase order and the material agreement in writing.

DATE :  
DEPT :  
Signature :  
CY PR EL SE ME MA  
BT BU PB SA BR %

03	29.Apr.26	IFR	R.G	F.T	A.M
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01	14.Feb.26	IFR	R.G	F.T	A.M
00	12.Jan.26	IFR	R.G	F.T	A.M
REV.	DATE (DD.MM.YY)	Purpose of Issue	Prepared	Checked	Approved
		<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>			
PO No.: GPIC-PT-MA-PO-000-3029		CONTRACT NO.: GPI-CON-99-008			SCALE: 1:1
<b>DRAWING TITLE:</b> <b>LCP and Junction Box Layout, Arrangement and Wiring Drawing</b>					
DRAWING NO. <b>VD-GPIC-MA-3029-3029-0046</b>				REV. SHEET NO. SIZE 03 7 OF 14 A3	

NOTE

**JUNCTION BOX SPECIFICATION:**

EX PROTECTION : II 2G Ex e IB T3

INGRESS PROTECTION : IP65

AMBIENT TEMP. CONDITION : -20 ... +55 °C

ENCLOSURE MATERIAL : STAINLESS STEEL 316

TB Type : 2.5mm2/BLUE

INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)

OPERATING VOLTAGE : <= 30V

OPERATING CURRENT (TOTAL) : <= 6A

EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2

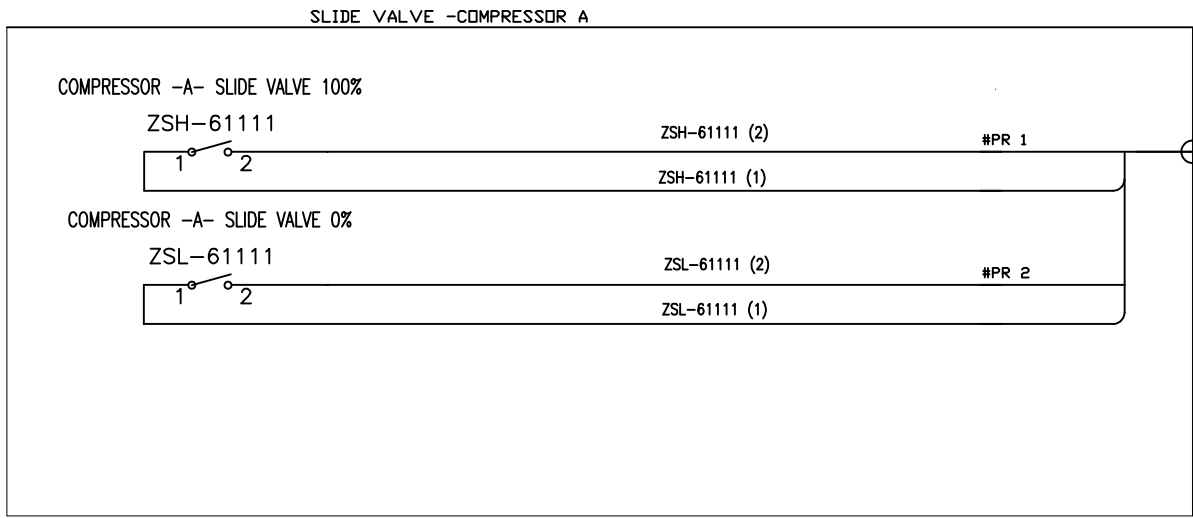
BREATHER/DRAIN : Stainless steel

STOPPING PLUG : Nickel plated brass

CABLE GLAND : Nickel plated brass

EARTH BOLT : M8

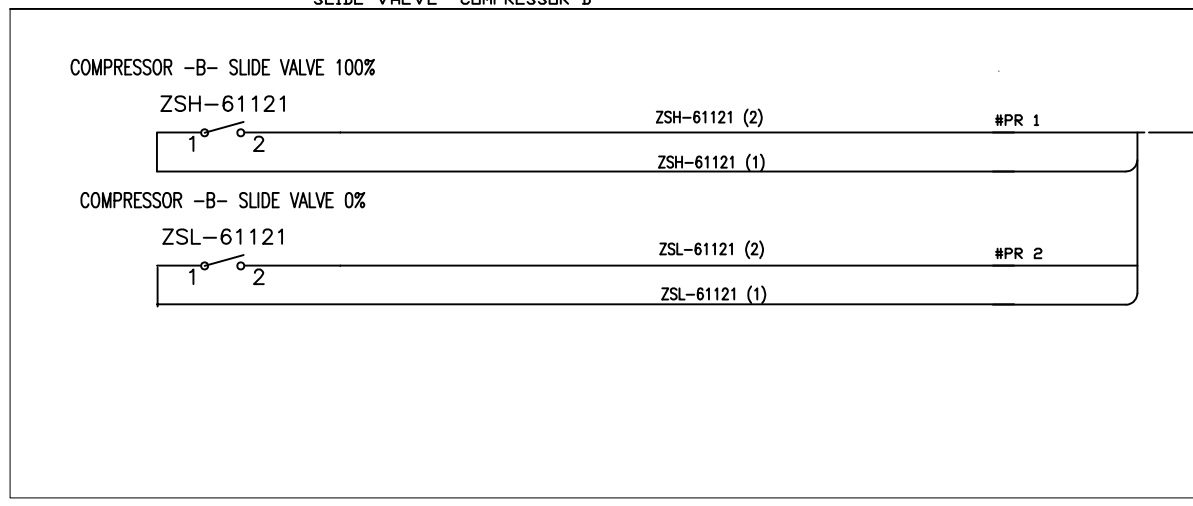
ENCLOSURE THICKNESS : 1.5 MM



2P 1.5 MM2 WIRES, FRT-02P-1.5 MM2  
 ØSCR/SWA/IS/BLUE (300/500) (BY CLIENT)

FROM COMP.-A- SLIDE VALVE TO  
 UCP-6101

INTERFACE CABLE GLAND  
 (M20)



2P 1.5 MM2 WIRES, FRT-02P-1.5 MM2  
 ØSCR/SWA/IS/BLUE (300/500) (BY CLIENT)

FROM COMP.-B- SLIDE VALVE TO  
 UCP-6101

INTERFACE CABLE GLAND  
 (M20)

<input type="checkbox"/>	No Comment/ Approved (Applicable Only for "For Review" and "For Approval" Documents) No comment and the document are released for Manufacturing
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<input type="checkbox"/>	No Check (Only for "For Information" Documents and "To Be Issued" Documents has been submitted for PMS/ISSUE information) (3) Confirming completion and execution of document content is in Vendor/Job-Contractor's responsibility.

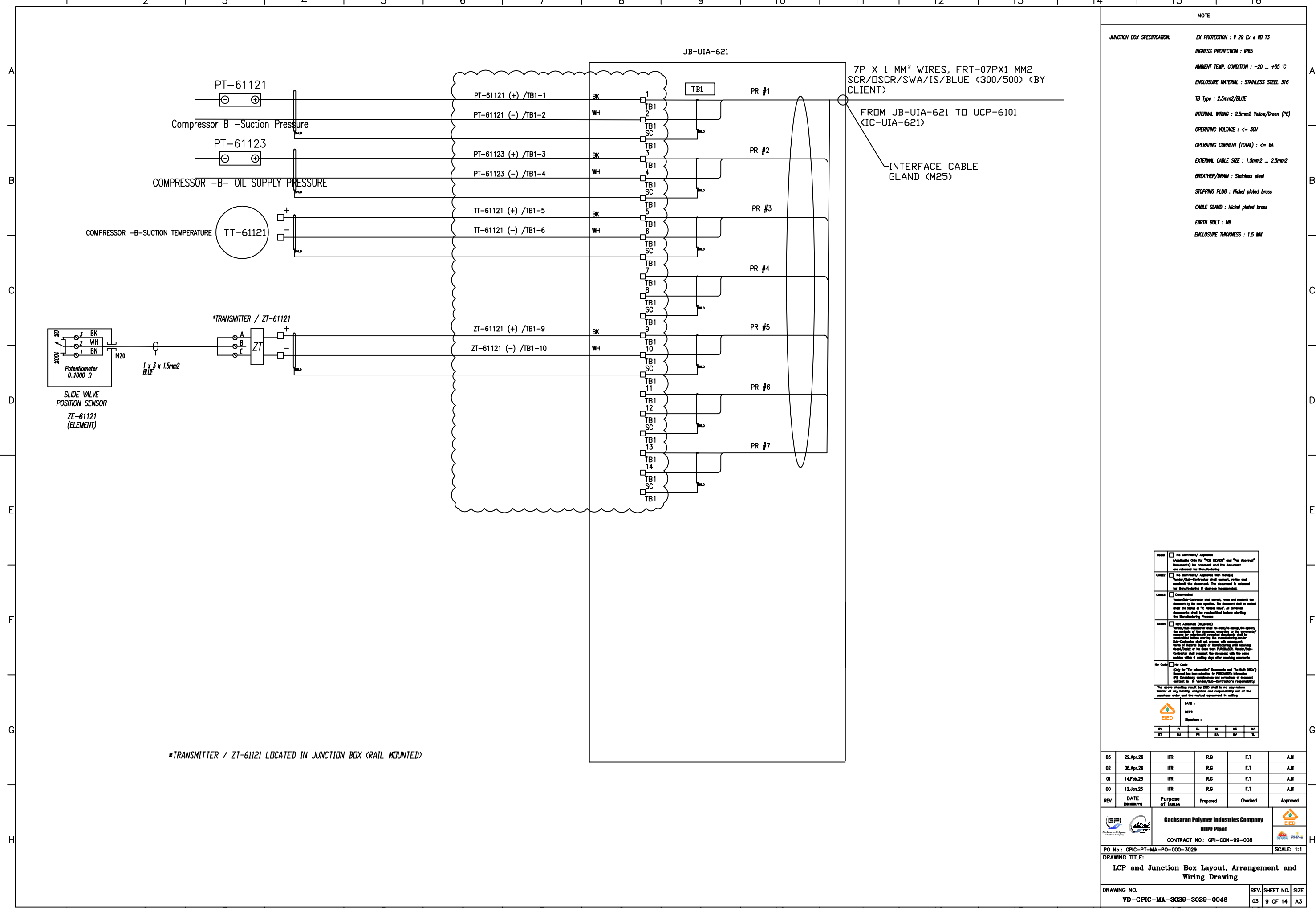
The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility and of the purchase order and the material agreement in writing.

DATE :  
 DEPT :  
 Signature :

CV	PI	EL	SI	ME	MA
BT	BU	PR	SA	SR	TL

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<p><b>Gachsaran Polymer Industries Company</b>  <b>HDPE Plant</b></p> <p>CONTRACT NO.: GPI-CON-99-008</p>					
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
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DRAWING NO. VD-GPIC-MA-3029-3029-0046				REV. SHEET NO. 03 8 OF 14	SIZE A3



**NOTE**

**JUNCTION BOX SPECIFICATION:**

- EX PROTECTION : II 2G Ex e IB T3
- INGRESS PROTECTION : IP65
- AMBIENT TEMP. CONDITION : -20 ... +55 °C
- ENCLOSURE MATERIAL : STAINLESS STEEL 316
- TB Type : 2.5mm2/BLUE
- INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)
- OPERATING VOLTAGE : <= 30V
- OPERATING CURRENT (TOTAL) : <= 6A
- EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2
- BREATHER/DRAIN : Stainless steel
- STOPPING PLUG : Nickel plated brass
- CABLE GLAND : Nickel plated brass
- EARTH BOLT : M8
- ENCLOSURE THICKNESS : 1.5 MM

Check	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "For Review" and "For Approval" Documents) No comment and the document are released for Manufacturing
Check	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Job-Contractor shall correct, revise and resubmit the document, the document is released for Manufacturing if changes incorporated.
Check	<input type="checkbox"/> Commented Vendor/Job-Contractor shall correct, revise and resubmit the document by the date specified, the document shall be re-issued under the status of "To Be Issued". All corrected documents shall be resubmitted before starting the Manufacturing Process.
Check	<input type="checkbox"/> Not Assessed (Rejected) Vendor/Job-Contractor shall re-work/re-design/re-verify the contents of the document according to the appropriate reasons for rejection. All corrected documents shall be re-submitted after starting the Manufacturing Process. Vendor/Job-Contractor shall not proceed with reworking until the status of "To Be Issued" is received. Vendor/Job-Contractor shall resubmit the document with the same status within 4 working days after reworking comments.
No Check	<input type="checkbox"/> No Check (Only for "For Information" Documents and "To Be Issued" Documents) Document has been submitted for information. (3) Confirming completion and execution of document content is the Vendor/Job-Contractor's responsibility.

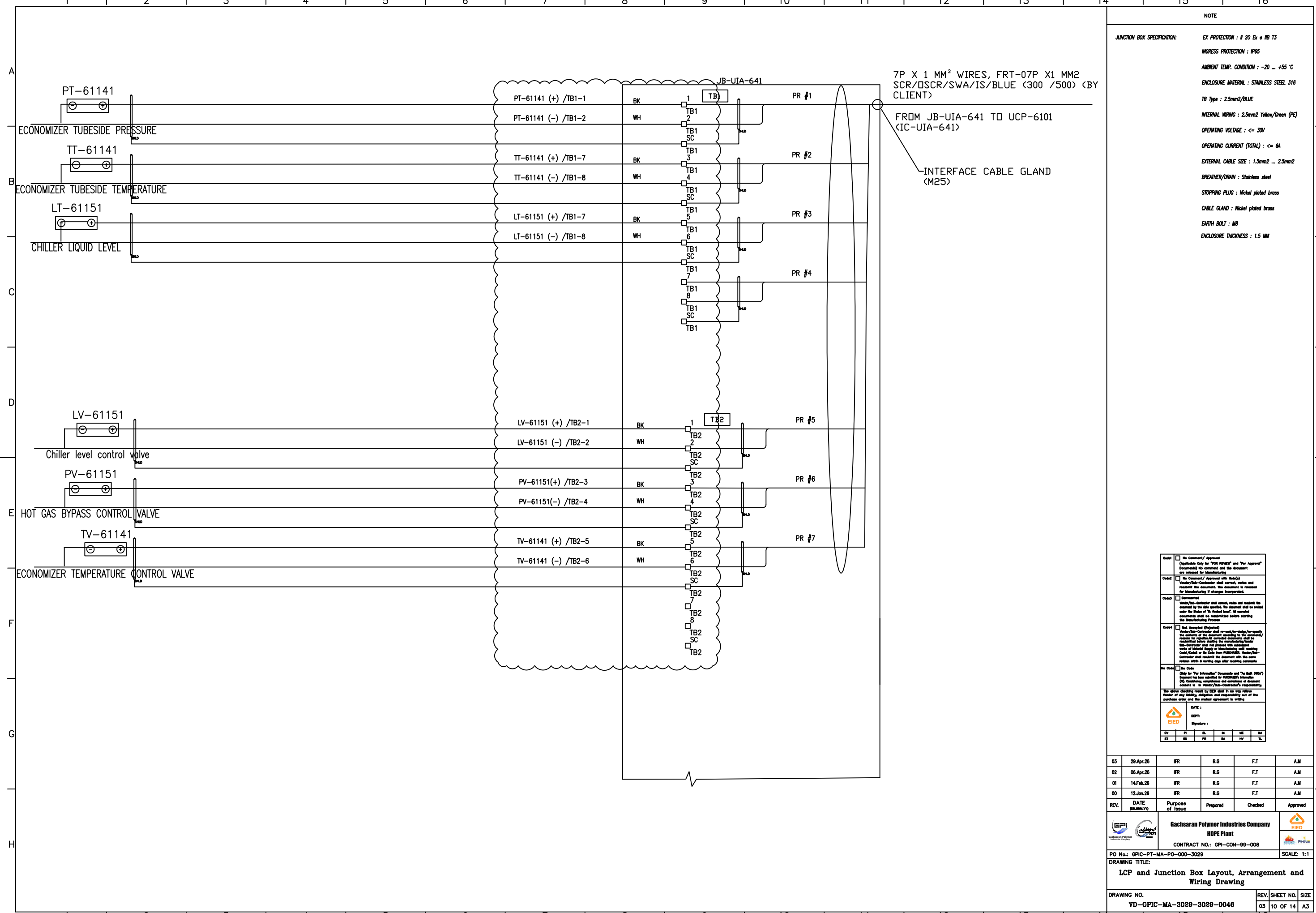
The above checking result by EIED shall in no way release Vendor of any liability, obligation and responsibility and of the purchase order and the material agreement in writing.

DATE :  
DEPT :  
Signature :

CV	PI	EL	SI	ME	MA
BT	BU	PR	SA	SR	TL

03	29.Apr.26	IFR	R.G	F.T	A.M
02	06.Apr.26	IFR	R.G	F.T	A.M
01	14.Feb.26	IFR	R.G	F.T	A.M
00	12.Jan.26	IFR	R.G	F.T	A.M

REV.	DATE (mm.mm.yy)	Purpose of Issue	Prepared	Checked	Approved
<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b> CONTRACT NO.: GPI-CON-99-008					
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
<b>DRAWING TITLE:</b> <b>LCP and Junction Box Layout, Arrangement and Wiring Drawing</b>					
<b>DRAWING NO.</b> VD-GPIC-MA-3029-3029-0046				<b>REV. SHEET NO. SIZE</b> 03 9 OF 14 A3	



**NOTE**

**JUNCTION BOX SPECIFICATION:**

- EX PROTECTION : II 2G Ex e IB T3
- INGRESS PROTECTION : IP65
- AMBIENT TEMP. CONDITION : -20 ... +55 °C
- ENCLOSURE MATERIAL : STAINLESS STEEL 316
- TB Type : 2.5mm2/BLUE
- INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)
- OPERATING VOLTAGE : <= 30V
- OPERATING CURRENT (TOTAL) : <= 6A
- EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2
- BREATHER/DRAIN : Stainless steel
- STOPPING PLUG : Nickel plated brass
- CABLE GLAND : Nickel plated brass
- EARTH BOLT : M8
- ENCLOSURE THICKNESS : 1.5 MM

Checked	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "For Review" and "For Approval" Documents) No comment and the document are released for Manufacturing
Checked	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Job-Contractor shall correct, revise and resubmit the document, the document is released for Manufacturing if changes incorporated.
Checked	<input type="checkbox"/> Commented Vendor/Job-Contractor shall correct, revise and resubmit the document by the date specified, the document shall be released under the status of "To Be Released", all corrected documents shall be resubmitted before starting the Manufacturing Process.
Checked	<input type="checkbox"/> Not Assessed (Rejected) Vendor/Job-Contractor shall re-work/re-design/re-verify the contents of the document according to the appropriate reasons for rejection. All corrected documents shall be re-submitted after starting the manufacturing process. Vendor/Job-Contractor shall not proceed with releasing work of material. Vendor/Job-Contractor shall resubmit the document within 4 working days after receiving comments.
No Check	<input type="checkbox"/> No Check (Only for "For Information" Documents and "As Built (BAB)" Documents has been submitted for PMS/SPM/Information) (P) Containing compliance and execution of document content is in Vendor/Job-Contractor's responsibility.

The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility out of the purchase order and the material agreement in writing.

DATE :  
DEPT :  
Signature :  
EIED

CV	PI	EL	SI	ME	MA
BT	BU	PR	SA	SR	TL

03	29.Apr.26	IFR	R.G	F.T	A.M
02	06.Apr.26	IFR	R.G	F.T	A.M
01	14.Feb.26	IFR	R.G	F.T	A.M
00	12.Jan.26	IFR	R.G	F.T	A.M
REV.	DATE (mm.mm.yy)	Purpose of Issue	Prepared	Checked	Approved

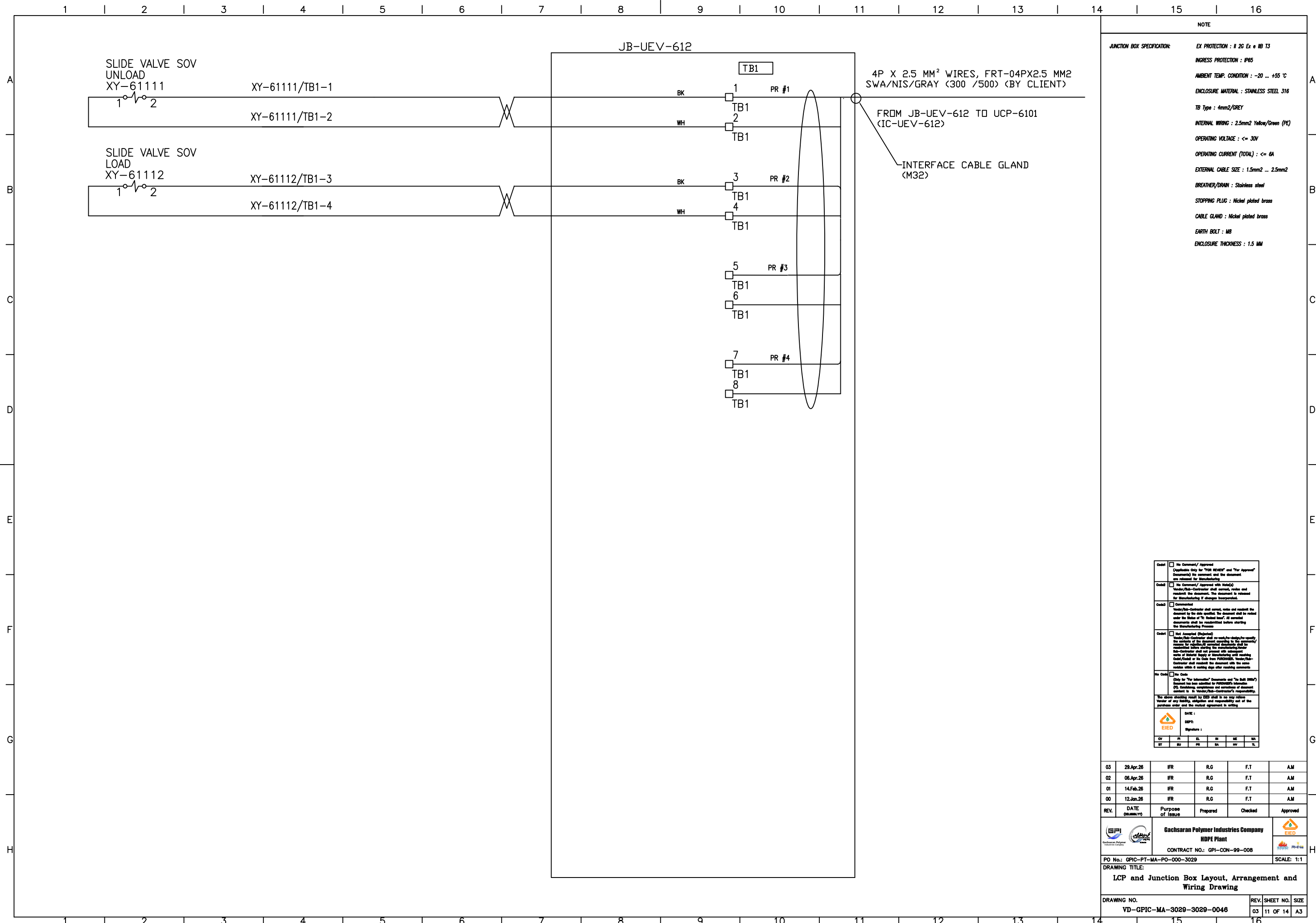
**Gachsaran Polymer Industries Company**  
**HDPE Plant**

CONTRACT NO.: GPI-CON-99-008

PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE:  
**LCP and Junction Box Layout, Arrangement and Wiring Drawing**

DRAWING NO.	REV. SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0046	03 OF 14	A3



**NOTE**

**JUNCTION BOX SPECIFICATION:**

- EX PROTECTION : II 2G Ex e IB T3
- INGRESS PROTECTION : IP65
- AMBIENT TEMP. CONDITION : -20 ... +55 °C
- ENCLOSURE MATERIAL : STAINLESS STEEL 316
- TB Type : 4mm<sup>2</sup>/GREY
- INTERNAL WIRING : 2.5mm<sup>2</sup> Yellow/Green (PE)
- OPERATING VOLTAGE : <= 30V
- OPERATING CURRENT (TOTAL) : <= 6A
- EXTERNAL CABLE SIZE : 1.5mm<sup>2</sup> ... 2.5mm<sup>2</sup>
- BREATHER/DRAIN : Stainless steel
- STOPPING PLUG : Nickel plated brass
- CABLE GLAND : Nickel plated brass
- EARTH BOLT : M8
- ENCLOSURE THICKNESS : 1.5 MM

Check	<input type="checkbox"/> No Comment/ Approved	(Applies Only for "For Review" and "For Approval" Documents) No comment and the document is released for Manufacturing			
Check	<input type="checkbox"/> No Comment/ Approved with Hold(s)	Vendor/Job-Contractor shall correct, review and resubmit the document. The document is released for Manufacturing if changes incorporated.			
Check	<input type="checkbox"/> Commented	Vendor/Job-Contractor shall correct, review and resubmit the document by the date specified. The document shall be released under the status of "Is holded item". All corrected documents shall be resubmitted before entering the Manufacturing Process.			
Check	<input type="checkbox"/> Not Assessed (Rejected)	Vendor/Job-Contractor shall re-work/re-design/re-approve the contents of the document according to the appropriate reasons for rejection. All corrected documents shall be re-submitted after starting the manufacturing process. Vendor/Job-Contractor shall not proceed with reworking until the date of the date from PMS/IB/BA. Vendor/Job-Contractor shall resubmit the document with the same status within 8 working days after reworking comments.			
No Check	<input type="checkbox"/> No Check	(Only for "For Information" Documents and "For Bill (BOM) Document" has been submitted for PMS/IB/BA information.) (3) Containing compliance and execution of document content is in Vendor/Job-Contractor's responsibility. The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility, not of the purchase order and the medical agreement in writing.			
DATE : DEPT : Signature :					
CV	PR	EL	SI	ME	MA
BT	BU	PR	SA	HW	TL

03	29.Apr.26	IFR	R.G	F.T	A.M
02	06.Apr.26	IFR	R.G	F.T	A.M
01	14.Feb.26	IFR	R.G	F.T	A.M
00	12.Jan.26	IFR	R.G	F.T	A.M
REV.	DATE (mm/dd/yyyy)	Purpose of Issue	Prepared	Checked	Approved

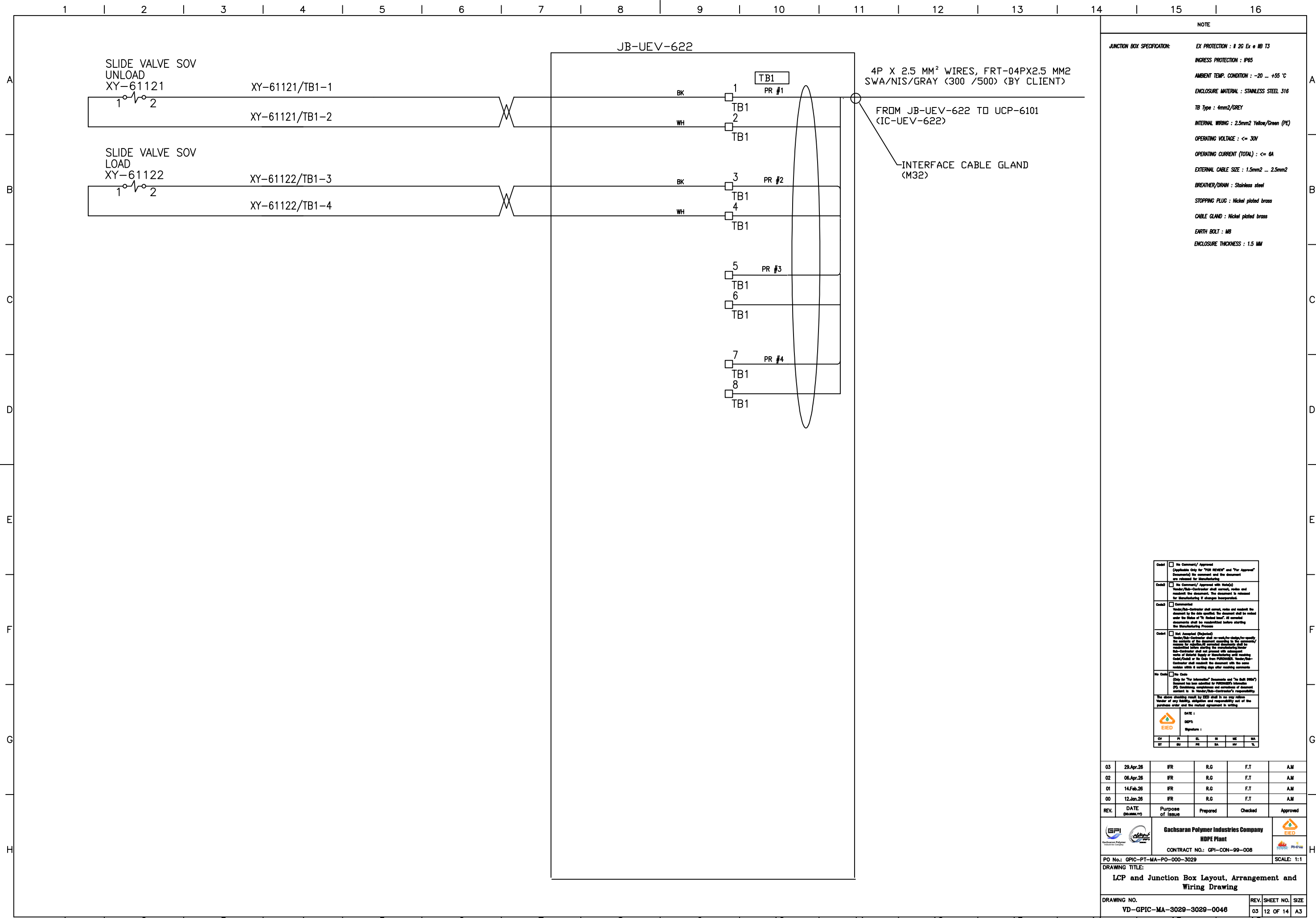
**Gachsan Polymer Industries Company**  
HDPE Plant

CONTRACT NO.: GPI-CON-99-008

PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

**DRAWING TITLE:**  
LCP and Junction Box Layout, Arrangement and Wiring Drawing

DRAWING NO.	REV.	SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0046	03	11 OF 14	A3



NOTE

**JUNCTION BOX SPECIFICATION:**

- EX PROTECTION : IP65
- INGRESS PROTECTION : IP65
- AMBIENT TEMP. CONDITION : -20 ... +55 °C
- ENCLOSURE MATERIAL : STAINLESS STEEL 316
- TB Type : 4mm2/GREY
- INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)
- OPERATING VOLTAGE : <= 30V
- OPERATING CURRENT (TOTAL) : <= 6A
- EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2
- BREATHER/DRAIN : Stainless steel
- STOPPING PLUG : Nickel plated brass
- CABLE GLAND : Nickel plated brass
- EARTH BOLT : M8
- ENCLOSURE THICKNESS : 1.5 MM

<input type="checkbox"/>	No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing
<input type="checkbox"/>	No Comment/ Approved with Note(s) Vendor/Job-Contractor shall correct, revise and resubmit the document, the document is released for Manufacturing if changes incorporated.
<input type="checkbox"/>	Commented Vendor/Job-Contractor shall correct, revise and resubmit the document by the date specified, the document shall be released under the status of "To Be Released", all corrected documents shall be resubmitted before starting the Manufacturing Process.
<input type="checkbox"/>	Not Assented (Rejected) Vendor/Job-Contractor shall re-work/re-design/re-verify the contents of the document according to the appropriate reasons for rejection. All corrected documents shall be re-submitted after starting the manufacturing process. Vendor/Job-Contractor shall not proceed with any work until the date of the date from PMS/ISSUE. Vendor/Job-Contractor shall resubmit the document with the same within 4 working days after receiving comments.
<input type="checkbox"/>	No Check (Only for "For Information" Documents and "To Be Released" Documents) Document has been submitted for PMS/ISSUE information. (3) Confirming compliance and execution of document content to the Vendor/Job-Contractor's responsibility. The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility and of the purchase order and the material agreement in writing.

DATE :  
DEPT :  
Signature :

CV	PI	EL	SI	ME	MA
BT	BU	PR	SA	SR	TL

03	29.Apr.26	IFR	R.G	F.T	A.M
02	06.Apr.26	IFR	R.G	F.T	A.M
01	14.Feb.26	IFR	R.G	F.T	A.M
00	12.Jan.26	IFR	R.G	F.T	A.M
REV.	DATE (mm.mm.yy)	Purpose of Issue	Prepared	Checked	Approved

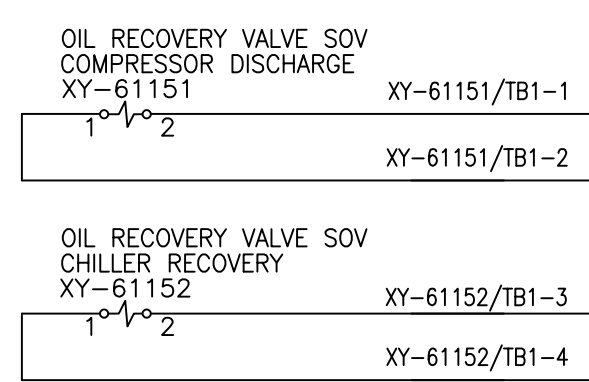
**Gachsan Polymer Industries Company**  
HDPE Plant

CONTRACT NO.: GPI-CON-99-008

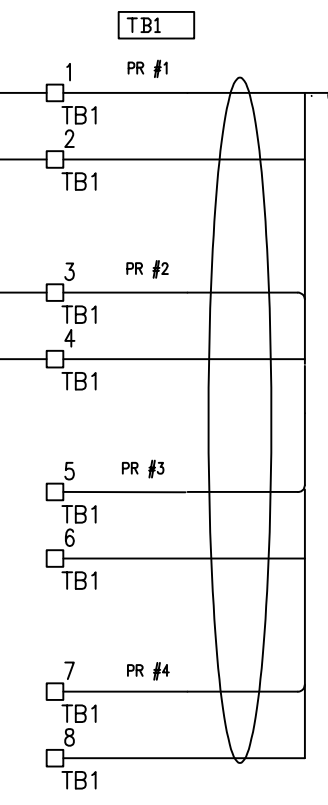
PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

**DRAWING TITLE:**  
LCP and Junction Box Layout, Arrangement and Wiring Drawing

DRAWING NO.	REV. SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0046	03 12 OF 14	A3



JB-UEV-652



4P X 2.5 MM<sup>2</sup> WIRES, FRT-04PX2.5 MM2  
SWA/NIS/GRAY (300 /500) (BY CLIENT)

FROM JB-UEV-652 TO UCP-6101  
(IC-UEV-652)

INTERFACE CABLE GLAND  
(M32)

NOTE

JUNCTION BOX SPECIFICATION:

EX PROTECTION : IP65

INGRESS PROTECTION : IP65

AMBIENT TEMP. CONDITION : -20 ... +55 °C

ENCLOSURE MATERIAL : STAINLESS STEEL 316

TB Type : 4mm2/GREY

INTERNAL WIRING : 2.5mm2 Yellow/Green (PE)

OPERATING VOLTAGE : <= 30V

OPERATING CURRENT (TOTAL) : <= 6A

EXTERNAL CABLE SIZE : 1.5mm2 ... 2.5mm2

BREATHER/DRAIN : Stainless steel

STOPPING PLUG : Nickel plated brass

CABLE GLAND : Nickel plated brass

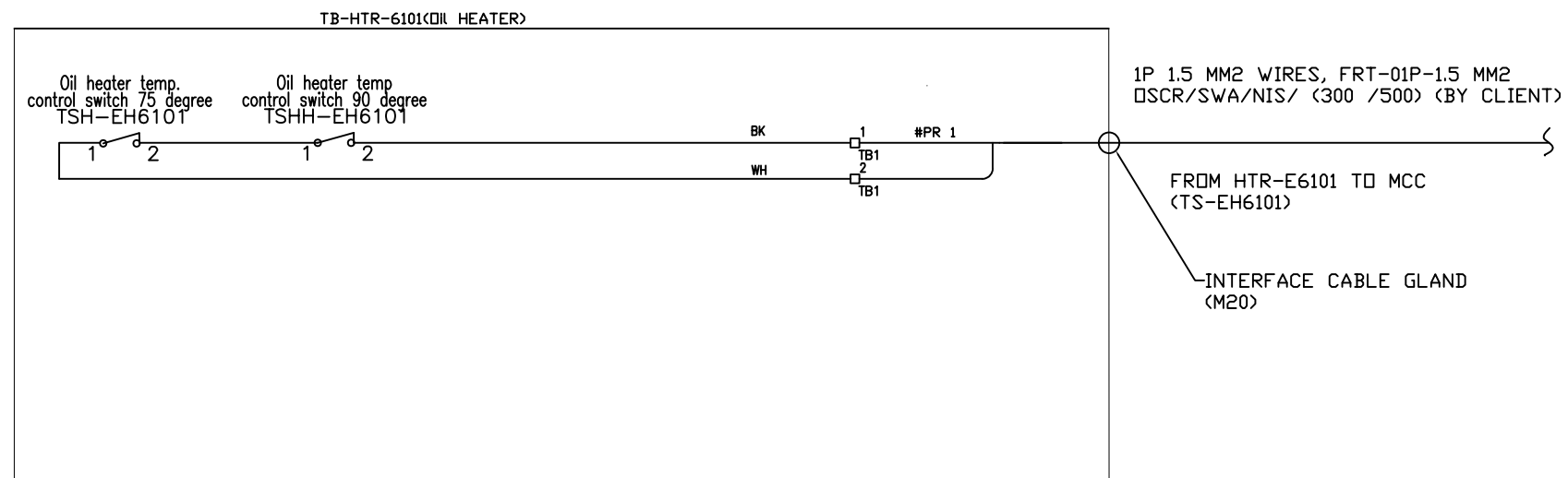
EARTH BOLT : M8

ENCLOSURE THICKNESS : 1.5 MM

<input type="checkbox"/>	No Comment/ Approved (Applicable Only for "For Review" and "For Approval" Documents) No comment and the document are released for Manufacturing				
<input type="checkbox"/>	No Comment/ Approved with Note(s) Vendor/Job-Contractor shall correct, revise and resubmit the document, the document is released for Manufacturing if changes incorporated.				
<input type="checkbox"/>	Commented Vendor/Job-Contractor shall correct, revise and resubmit the document by the date specified, the document shall be revised under the status of "To Be Released". All corrected documents shall be resubmitted before starting the Manufacturing Process.				
<input type="checkbox"/>	Not Assessed (Rejected) Vendor/Job-Contractor shall re-work/re-design/re-verify the contents of the document according to the appropriate reasons for rejection. All corrected documents shall be re-submitted after starting the manufacturing process. Job-Contractor shall not proceed with installation works of material supply or manufacturing until receiving Order/Check or the Code from PURCHASER. Vendor/Job- Contractor shall resubmit the document with the same reasons within 4 working days after receiving comments.				
<input type="checkbox"/>	No Check (Only for "For Information" Documents and "To Be Released" Documents has been submitted for PURCHASER'S Information (P) Containing compliance and execution of document content is in Vendor/Job-Contractor's responsibility.) The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility and of the purchase order and the material agreement in writing.				
DATE : DEPT : Signature : 					
CV	PI	EL	SI	ME	MA
BT	BU	PR	SA	HR	TL

03	29.Apr.26	IFR	R.G	F.T	A.M
02	06.Apr.26	IFR	R.G	F.T	A.M
01	14.Feb.26	IFR	R.G	F.T	A.M
00	12.Jan.26	IFR	R.G	F.T	A.M

REV.	DATE (mm.mm.yy)	Purpose of Issue	Prepared	Checked	Approved
<b>Gachsan Polymer Industries Company</b> <b>HDPE Plant</b> CONTRACT NO.: GPI-CON-99-008					
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: <b>LCP and Junction Box Layout, Arrangement and Wiring Drawing</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0046				REV. SHEET NO. 03 13 OF 14	SIZE A3



<input type="checkbox"/>	No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing
<input type="checkbox"/>	No Comment/ Approved with Note(s) Vendor/Job-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
<input type="checkbox"/>	Commented Vendor/Job-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be released under the Status of "To Be Released". All corrected documents shall be resubmitted before starting the Manufacturing Process.
<input type="checkbox"/>	Not Assessed (Rejected) Vendor/Job-Contractor shall re-work/re-design/re-verify the contents of the document according to the appropriate reasons for rejection. All corrected documents shall be re-assessed before starting the manufacturing process. Job-Contractor shall not proceed with installation. Check/Check of the Code from PMS/MSHA. Vendor/Job-Contractor shall resubmit the document with the same within 4 working days after receiving comments.
<input type="checkbox"/>	No Check (Only for "For Information" Documents and "As Built (BAB)" Documents has been submitted for PMS/MSHA's information.) No Comment/ Approved with Note(s) Vendor/Job-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be released under the Status of "To Be Released". All corrected documents shall be resubmitted before starting the Manufacturing Process.

The above checking result by EED shall in no way release Vendor of any liability, obligation and responsibility and of the purchase order and the material agreement in writing.

DATE :  
DEPT :  
Signature :

CY	PI	EL	SI	ME	MA
BT	BU	PR	SA	HR	TL

03	29.Apr.26	IFR	R.G	F.T	A.M
02	06.Apr.26	IFR	R.G	F.T	A.M
01	14.Feb.26	IFR	R.G	F.T	A.M
00	12.Jan.26	IFR	R.G	F.T	A.M

REV.	DATE (mm.mm.yy)	Purpose of Issue	Prepared	Checked	Approved
<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b> CONTRACT NO.: GPI-CON-99-008					
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: <b>LCP and Junction Box Layout, Arrangement and Wiring Drawing</b>					
DRAWING NO. VD-GPIC-MA-3029-3029-0046				REV. SHEET NO.	SIZE
				03 14 OF 14	A3