



TECHNICAL SPECIFICATIONS

**TENDER NO. GAIL/VC/C&P/P24292/YB/MECH/2024 Dated 11.12.2024.
“PROCUREMENT OF HYDRAULIC & MECHANICAL TOOLS FOR ROUTINE & SHUTDOWN
MAINTENANCE JOBS OF VARIOUS EQUIPMENTS INSTALLED AT C2C3 RECOVERY PLANT, LPG
PLANT & HVJ COMPRESSOR STATION AT GAIL, VIJAIPUR”.**

1) **ITEM:** Angled Nut splitter for the nut size (A/F) 24 mm - 32 mm.

(**GAIL Material code:** 6158951333).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Cutter Head Return Type is Single-Acting Spring Return.	
2.	Angled head design.	
3.	Angled Nut splitter Capacity: Minimum 15 Ton.	
4.	Working Pressure:700 Bar	
5.	Maximum allowable hardness: The Nut splitters are designed to easily split corroded nuts up to HRc44 hardness.	
6.	Range for splitting hexagonal nuts: (A/F) 24 mm to 32 mm.	
7.	Nut Splitters include i) spare chisel, ii) spare set screw, wrench used to secure the chisel, and iii) One set of Sealing kit containing all seals incorporated inside the nut splitter.	
8.	High quality steel construction	
9.	spark & flame proof design. No risk to volatile surrounding.	
10.	An instruction manual detailing all internal tool components is provided.	
11.	Coupler shall have 3/8"-18 NPTF fitting	

Note:

- 1.0 If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
- 2.0 If there are any deviations, then the Bidder must specify the deviations in the designated column.

[BIDDER’S SEAL AND SIGNATURE]

TENDER NO. GAIL/VC/C&P/P24292/YB/MECH/2024 Dated 11.12.2024.

“PROCUREMENT OF HYDRAULIC & MECHANICAL TOOLS FOR ROUTINE & SHUTDOWN MAINTENANCE JOBS OF VARIOUS EQUIPMENTS INSTALLED AT C2C3 RECOVERY PLANT, LPG PLANT & HVJ COMPRESSOR STATION AT GAIL, VIJAIPUR”.

- 2) **ITEM:** Angled nut splitter for the nut size (A/F) 32 mm - 41 mm.
(GAIL Material code: 6158951343).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Cutter Head Return Type is Single-Acting Spring Return.	
2.	Angled head design.	
3.	Angled Nut splitter Capacity: Minimum 20 Ton.	
4.	Working Pressure:700 Bar	
5.	Maximum allowable hardness: The Nut splitters are designed to easily split corroded nuts up to HRc44 hardness.	
6.	Range for splitting hexagonal nuts: (A/F) 32 mm to 41 mm.	
7.	Nut Splitters include i) spare chisel, ii) spare set screw, wrench used to secure the chisel, and iii) One set of Sealing kit containing all seals incorporated inside the nut splitter.	
8.	High quality steel construction	
9.	spark & flame proof design. No risk to volatile surrounding.	
10.	An instruction manual detailing all internal tool components is provided.	
11.	Coupler shall have 3/8"-18 NPTF fitting	

Note:

1. If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
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[BIDDER’S SEAL AND SIGNATURE]

3) **ITEM:** Angled nut splitter for the nut size (A/F) 41 mm - 50 mm.

(GAIL Material code: 6158951173).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Cutter Head Return Type is Single-Acting Spring Return.	
2.	Angled head design.	
3.	Angled Nut splitter Capacity: Minimum 35 Ton.	
4.	Working Pressure:700 Bar	
5.	Maximum allowable hardness: The Nut splitters are designed to easily split corroded nuts up to HRc44 hardness.	
6.	Range for splitting hexagonal nuts: (A/F) 41 mm to 50 mm.	
7.	Nut Splitters include i) spare chisel, ii) spare set screw, wrench used to secure the chisel, and iii) One set of Sealing kit containing all seals incorporated inside the nut splitter.	
8.	High quality steel construction	
9.	spark & flame proof design. No risk to volatile surrounding.	
10.	An instruction manual detailing all internal tool components is provided.	
11.	Coupler shall have 3/8"-18 NPTF fitting	

Note:

1. If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
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4) **ITEM:** Angled nut splitter for the nut size (A/F) 50 mm - 60 mm.

(GAIL Material code: 6158951383).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Cutter Head Return Type is Single-Acting Spring Return.	
2.	Angled head design.	
3.	Angled Nut splitter Capacity: Minimum 50 Ton.	
4.	Working Pressure:700 Bar	
5.	Maximum allowable hardness: The Nut splitters are designed to easily split corroded nuts up to HRc44 hardness.	
6.	Range for splitting hexagonal nuts: (A/F) 50 mm to 60 mm.	
7.	Nut Splitters include i) spare chisel, ii) spare set screw, wrench used to secure the chisel, and iii) One set of Sealing kit containing all seals incorporated inside the nut splitter.	
8.	High quality steel construction	
9.	spark & flame proof design. No risk to volatile surrounding.	
10.	An instruction manual detailing all internal tool components is provided.	
11.	Coupler shall have 3/8"-18 NPTF fitting	

Note:

- If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
- If there are any deviations, then the Bidder must specify the deviations in the designated column.

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5) **ITEM:** Angled nut splitter for the nut size (A/F) 60 mm - 75 mm.

(**GAIL Material code:** 6158951393).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Cutter Head Return Type is Single-Acting Spring Return.	
2.	Angled head design.	
3.	Angled Nut splitter Capacity: Minimum 90 Ton.	
4.	Working Pressure:700 Bar	
5.	Maximum allowable hardness: The Nut splitters are designed to easily split corroded nuts up to HRc44 hardness.	
6.	Range for splitting hexagonal nuts: (A/F) 60 mm to 75 mm.	
7.	Nut Splitters include i) spare chisel, ii) spare set screw, wrench used to secure the chisel, and iii) One set of Sealing kit containing all seals incorporated inside the nut splitter.	
8.	High quality steel construction	
9.	spark & flame proof design. No risk to volatile surrounding.	
10.	An instruction manual detailing all internal tool components is provided.	
11.	Coupler shall have 3/8"-18 NPTF fitting	

Note:

1. If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
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6) **ITEM-** Hydraulic Hand Pump, single acting, double speed, along with hose, pressure gauge and Gauge adapter.

(GAIL Material code: 6158199103).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Hydraulic hand pump, Single acting, double speed along with coupler and end cap.	
2.	Max Working Pressure: 700 Bar.	
3.	Min. Usable oil capacity: 2200 cm ³ .	
4.	Min. oil displacement per stroke: • 1st stage: 15 cm ³ • 2nd stage: 2 cm ³	
5.	pump have a release valve to release the pressure so that the hydraulic cylinder can retract and load can be lowered.	
6.	pump have internal pressure relief valve for overload protection.	
7.	The pump has chrome plated plunger, and a wiper system for long-lasting performance.	
8.	Comfortable, soft and non-slip grip for pumping handle.	
9.	Pump have Internal reservoir over-pressurization protection.	
10.	Coupler shall have 3/8"-18 NPTF fitting.	
11.	Supplied along with One number of suitable hose with fittings at both end (Min Hose Length 2 meter) with Anti-Kink Springs on both side of hose.	
12.	01 number of Pressure Gauge Glycerine Filled with Gauge Adapter.	
13.	Material of construction: Alloy Steel.	
14.	Test certificates mentioning load carrying capacity.	
15.	Pump is provided with One set of spare Sealing kit containing all seals incorporated inside the pump.	

Note:

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7) **ITEM:** Angled nut splitter for the nut size (A/F) 70 mm - 100 mm.

(GAIL Material code: 6158951020).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Cutter Head Return Type is Double-acting.	
2.	Angled head design.	
3.	Angled Nut splitter Capacity: Minimum 100 Ton.	
4.	Working Pressure:700 Bar	
5.	Maximum allowable hardness: The Nut splitters are designed to easily split corroded nuts up to HRc44 hardness.	
6.	Range for splitting hexagonal nuts: (A/F) 70 mm to 100 mm.	
7.	Nut Splitters include i) spare chisel, ii) spare set screw, wrench used to secure the chisel, and iii) Sealing kit containing all seals incorporated inside the nut splitter.	
8.	High quality steel construction.	
9.	spark & flame proof design. No risk to volatile surrounding.	
10.	An instruction manual detailing all internal tool components is provided.	
11.	Coupler shall have 3/8"-18 NPTF fitting	

Note:

- If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
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8) **ITEM:** Double acting Hydraulic Hand Pump, along with hose, pressure gauge and Gauge adapter.
(GAIL Material code: 6180023033).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Hydraulic hand pump, Double acting, double speed, along with coupler and end cap.	
2.	Max Working Pressure: 700 Bar.	
3.	Min. Usable oil capacity: 2200 cm ³ .	
4.	Min. oil displacement per stroke: • 1st stage: 15 cm ³ • 2nd stage: 2 cm ³	
5.	pump have a release valve to release the pressure so that the hydraulic cylinder can retract and load can be lowered.	
6.	pump have internal pressure relief valve for overload protection.	
7.	The pump has chrome plated plunger, and a wiper system for long-lasting performance.	
8.	Comfortable, soft and non-slip grip for pumping handle.	
9.	Pump have Internal reservoir over-pressurization protection.	
10.	Coupler shall have 3/8"-18 NPTF fitting.	
11.	Supplied along with One number of suitable hose with fittings at both end (Min Hose Length 2 meter) with Anti-Kink Springs on both side of hose.	
12.	01 number of Pressure Gauge Glycerine Filled with Gauge Adapter.	
13.	Material of construction: Alloy Steel.	
14.	Test certificates mentioning load carrying capacity.	
15.	Pump is provided with One set of spare Sealing kit containing all seals incorporated inside the pump.	

Note:

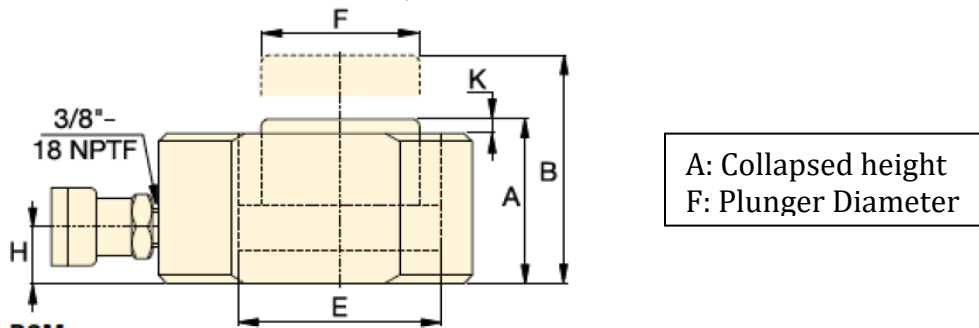
- If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
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9) **ITEM:** Hydraulic flat jack, single acting plain ram with spring return, capacity: 100 Ton.
(GAIL Material code: 6180023043).



Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	General Purpose Single Acting, Spring Return Plain Ram Hydraulic Cylinder with Coupler and End Cap.	
2.	Capacity: 100 Ton	
3.	Min. Stroke: 16 mm	
4.	Max. Operating Pressure: 700 bar.	
5.	Max. Collapsed Height: 90 mm (collapsed height has to be lower or equal to 90 mm).	
6.	Min Plunger Diameter: 65 mm.	
7.	Plunger Should be Solid and made up of chrome plated steel.	
8.	Cylinder shall have wiper seal for extended life.	
9.	Coupler shall have 3/8\"-18 NPTF fitting	
10.	Material of construction: Alloy Steel	
11.	Test certificate mentioning load carrying capacity	
12.	The Jack is provided with One set of spare Sealing kit containing all seals incorporated inside the jack.	
13.	The jack has handle for easy carrying.	
14.	Grooved plunger ends requiring no saddle	

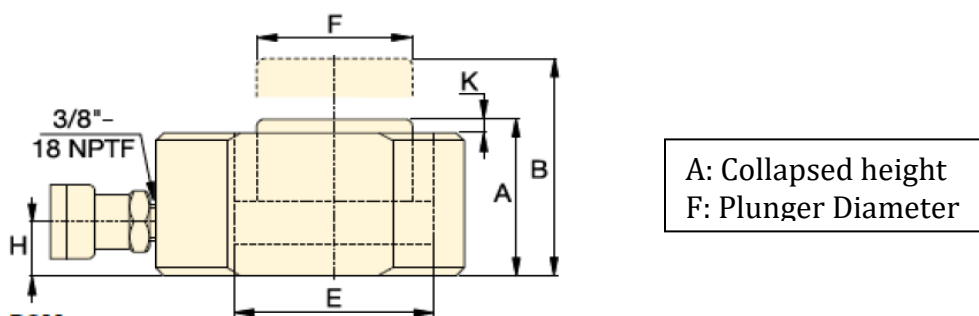
Note:

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10) ITEM: Hydraulic flat jack, single acting plain ram with spring return, capacity: 50 Ton.
(GAIL Material code: 6180029973).



Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	General Purpose Single Acting, Spring Return Plain Ram Hydraulic Cylinder with Coupler and End Cap.	
2.	Capacity: 50 Ton	
3.	Min. Stroke: 15 mm	
4.	Max. Operating Pressure: 700 bar.	
5.	Max. Collapsed Height: 70 mm (collapsed height has to be lower or equal to 70 mm).	
6.	Min Plunger Diameter: 65 mm.	
7.	Plunger Should be Solid and made up of chrome plated steel.	
8.	Cylinder shall have wiper seal for extended life.	
9.	Coupler shall have 3/8"-18 NPTF fitting	
10.	Material of construction: Alloy Steel	
11.	Test certificate mentioning load carrying capacity	
12.	The Jack is provided with One set of spare Sealing kit containing all seals incorporated inside the jack.	
13.	Grooved plunger ends requiring no saddle	

Note:

- If the bidder fully complies with the technical specification, Bidder has to write “Confirmed” in the respective column.
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[BIDDER’S SEAL AND SIGNATURE]

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11) **ITEM:** Hydraulic jack, Capacity:100 Ton, Working Pressure: 700 BAR, Threaded ram with safety lock nut, Single acting, Spring return.

(GAIL Material code: 6180022313).



Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	General Purpose Hydraulic Cylinder, Single Acting, Spring Return- As shown in the above image.	
2.	Threaded ram with safety lock nut	
3.	Capacity: 100 Ton	
4.	Min. Stroke: 150 mm	
5.	Max. Operating Pressure: 700 bar.	
6.	Closed height: Maximum 360 mm (Closed Height has to be lower or equal to 360mm).	
7.	Min Plunger Diameter: 80 mm.	
8.	Chrome plated Solid Plunger.	
9.	Jack plunger has Wiper seal for extended life.	
10.	High-grade polyethylene seals for low wear and long service life.	
11.	Bottom base dimensions W * L: minimum 150 mm * minimum 200 mm	
12.	Coupler shall have 3/8"-18 NPTF fitting, dust cap and collar thread protector.	
13.	Material of construction: Alloy Steel	
14.	Test certificate mentioning load carrying capacity	
15.	The Jack is provided with One set of spare Sealing kit containing all seals incorporated inside the jack.	
16.	Grooved plunger ends requiring no saddle	

Note:

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12) ITEM: Hydraulic jack, Capacity: 50 Ton, Working Pressure: 700 BAR, Threaded ram with safety lock nut, Single acting, Spring return.

(GAIL Material code: 6180028543).



Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	General Purpose Hydraulic Cylinder, Single Acting, Spring Return- As shown in the above image.	
2.	Threaded ram with safety lock nut	
3.	Capacity: 50 Ton	
4.	Min. Stroke: 150 mm	
5.	Max. Operating Pressure: 700 bar.	
6.	Closed height: Maximum 350 mm (Closed Height has to be lower or equal to 350mm).	
7.	Min Plunger Diameter: 80 mm.	
8.	Chrome plated Solid Plunger.	
9.	Jack plunger has Wiper seal for extended life.	
10.	High-grade polyethylene seals for low wear and long service life	
11.	Bottom base dimensions W * L: minimum 150 mm * minimum 200 mm.	
12.	Coupler shall have 3/8"-18 NPTF fitting, dust cap and collar thread protector.	
13.	Material of construction: Alloy Steel	
14.	Test certificate mentioning load carrying capacity	
15.	The Jack is provided with One set of spare Sealing kit containing all seals incorporated inside the jack.	
16.	Grooved plunger ends requiring no saddle	

Note:

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13) ITEM: Flange spreader, Type: hydraulic, Capacity: 24 TON, with pump of pressure 700 BAR, Spreading distance: 6-100 mm.

(GAIL Material code: 6158130023).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Hydraulic flange spreader, Capacity: 24 Ton.	
2.	Flange spreader assembly which can generate spreading force of minimum 20 Ton at the 1st step and up to 24 Ton on the 4th step.	
3.	The tool jaws must be of stepped type.	
4.	Flange spreader assembly can be used in an access gap of 6 mm or Less and maximum spread shall be minimum 40 mm using only the 1st step of flange spreader.	
5.	Using all steps but without the stepped blocks, the flange spreader can be used in access gap of 6mm or less and maximum spread shall be minimum 87 mm.	
6.	Using with the stepped blocks, the flange spreader should have maximum spread of minimum 103 mm.	
7.	The safety block should have high strength, so that it can be safely used between two flanges while spreading and also dimension of the safety block steps should be decided in accordance with the steps provided on the jaws. The dimensions of a step on safety block should be less than dimensions of the respective step on the jaws, so that the safety block may be easily inserted between the flanges in the mid-range of the gap between flanges.	
8.	Each and every tip of tool jaw must be strong enough to withstand the spreading force.	
9.	The flange spreader assembly must be provided with the carry strap/lanyard for safe handling the flange spreader while in use.	
10.	The flange spreader assembly must have release arrangement to release hydraulic pressure at any point of time.	
11.	The flange spreader assembly must have automatic mechanical retraction	
12.	Flange spreader tool kit must be portable, compact and should be light in weight, so that tool can ideally be used in confined spaces or when working at height.	
13.	Material of construction-High Strength Alloy steel.	
14.	The flange spreader tool kit shall consist of following but not limited to:	

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	i) 1 x flange spreader wedge head min. 24-ton capacity ii) 1 x 10,000 psi (700 Bar) External Hydraulic Hand Pump with pressure gauge showing operating pressure of pump. iii) 1 x 10,000 psi (700 Bar) Hydraulic Hoses (length 2m or above). iv) 2x high strength safety block. v) 1x Pair of Stepped block. vi) 1x carry strap/lanyard. vii) 1x robust carry case with safety foam. viii) 1 x instruction & maintenance manual. ix) 1 x Hex key.	
15.	Test certificate mentioning load carrying capacity for Flange spreader wedge head, pump, safety blocks, stepped blocks and hydraulic hoses.	

Note:

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[BIDDER’S SEAL AND SIGNATURE]

14) **ITEM:** Reversible Jaw Puller TMMR 40F or Equivalent Puller.

(GAIL Material code: 6160059773).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Range of width of grip external: 23.0 – 48.0 mm.	
2.	Width of grip internal: 59.0 – 67.0 mm.	
3.	Number of arms: 2	
4.	Reversible and self-locking arms.	
5.	Effective arm length: 67 mm.	
6.	Claw height: 4 mm.	
7.	Claw length: 6 mm.	
8.	Total Arm length: 103 mm.	
9.	Claw width: 13 mm.	
10.	Total spindle length: 133 mm.	
11.	Material of Construction: Alloy engineering steels, hardened and tempered.	

Note:

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15) **ITEM:** BEARING PULLER, MODEL: TMMR 350XL or Equivalent Puller.
(GAIL Material code: 6160059793).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Range of width of grip external: 44.0 – 336.0 mm.	
2.	Width of grip internal: 123.0 – 384.0 mm.	
3.	Number of arms: 2	
4.	Reversible, self-locking Extendable arms, Nose piece with spring loaded tip.	
5.	Effective arm length: 221 mm.	
6.	Claw height: 8.5 mm.	
7.	Claw length: 16 mm.	
8.	Total Arm length: 330 mm.	
9.	Claw width: 25 mm.	
10.	Total spindle length: 367 mm.	
11.	Material of Construction: Alloy engineering steels, hardened and tempered.	

Note:

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[BIDDER’S SEAL AND SIGNATURE]

16) ITEM: BEARING PULLER, MODEL: TMHP 10 E or Equivalent Bearing Puller.

(GAIL Material code: 6160059803).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	The puller kit shall include three different arm sizes and shall be assembled as a two-arm puller or a three-arm puller depending on the space and demand of the application.	
2.	Nominal working force :100 kN.	
3.	The 3 different arm sizes, with a maximum effective arm length of 200 mm (7.9 in).	
4.	The self-locking arms to minimise the risk of the puller slipping from the application when under load.	
5.	The hydraulic spindle is equipped with a safety valve, which minimises the risk of puller overload by limiting the applied force to 100 kN.	
6.	Long stroke of hydraulic spindle: 80 mm (3.1 in)	
7.	Hydraulic spindle has spring-loaded centre point to allow easy puller centring & minimize the risk of shaft damage.	
8.	Contents: i) 1 x arm-assembly stand. ii) 3 x arms, 115 mm (4.5 in). iii) 3 x arms, 160 mm (6.3 in.). iv) 3 x arms, 200 mm (7.8 in). v) 1 x hydraulic spindle TMHS 100 or equivalent. vi) 3 x extension pieces for hydraulic spindle; 50, 100, 150 mm (2, 4, 6 in). vii) 1 x nosepiece with centre point for hydraulic spindle.	
9.	Maximum stroke: 80 mm	
10.	Safety valve setting hydraulic cylinder: 105 KN	

Note:

- If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
- If there are any deviations, then the Bidder must specify the deviations in the designated column.

[BIDDER’S SEAL AND SIGNATURE]

TENDER NO. GAIL/VC/C&P/P24292/YB/MECH/2024 Dated 11.12.2024.

“PROCUREMENT OF HYDRAULIC & MECHANICAL TOOLS FOR ROUTINE & SHUTDOWN MAINTENANCE JOBS OF VARIOUS EQUIPMENTS INSTALLED AT C2C3 RECOVERY PLANT, LPG PLANT & HVJ COMPRESSOR STATION AT GAIL, VIJAIPUR”.

17) **ITEM:** HOOK SPANNER SET, HN SERIES

(GAIL Material Code: 6110469103).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	HOOK SPANNER SET, EACH SET CONSISTS OF 01 NO OF HN 4 SPANNER, 01 NO OF HN 5-6, SPANNER, 01 NO OF HN 7 SPANNER, 01 NO OF HN 8-9 SPANNER	
2.	The SPANNER SET should Comply fully with SKF Standard.	

Note:

- If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
- If there are any deviations, then the Bidder must specify the deviations in the designated column.

[BIDDER’S SEAL AND SIGNATURE]

TENDER NO. GAIL/VC/C&P/P24292/YB/MECH/2024 Dated 11.12.2024.

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18) **ITEM:** BEARING PULLER TMMP 3 ARM, 45-300 MM GRIP, 50 KN WF or Equivalent Bearing Puller.

(GAIL Material code: 6160051003).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Range of width of grip external: 45.0 – 300.0mm.	
2.	Spindle head, hexagon size:24	
3.	Number of arms: 3	
4.	Effective arm length: 240 mm.	
5.	Claw height: 11 mm.	
6.	Claw length: 14 mm.	
7.	Claw width: 27 mm.	
8.	Total spindle length: 373 mm.	
9.	Material of Construction: Alloy engineering steels, hardened and tempered.	

Note:

- If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
- If there are any deviations, then the Bidder must specify the deviations in the designated column.

[BIDDER’S SEAL AND SIGNATURE]

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19) **ITEM:** INTERNAL BEARING PULLER, SUITABLE FOR BEARING DIA 30-60 MM,
DESIGNATION: TMIP 30-60, or Equivalent Bearing Puller.

(**GAIL Material code:** 6160059763).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Range of width of grip internal: 30.0 – 60.0 mm.	
2.	Workpiece width (max): a) TMIP E30-40: >35 mm. b) TMIP E45-60: >64 mm.	
3.	Housing depth (max): a) TMIP E30-40: 97 mm. b) TMIP E45-60:102 mm.	
4.	Needed free depth behind workpiece: a) TMIP E30-40: 11.5 mm, b) TMIP E45-60:15 mm.	
5.	Extractor Hexagonal head size: All-19 mm	
6.	Total extractor length: a) TMIP E30-40: 143 mm, b) TMIP E45-60:155 mm.	
7.	Slide hammer total length: 557 mm	
8.	Total Contents: a) 2x Extractors size E30-40 and E45-60. b) 1x slide hammer, c) 1x Printed Instructions for Use, d) 1x Carrying case.	
9.	Material: Medium carbon steels and alloy engineering steels, hardened and tempered	
10.	Material handle: Opener handle: steel, Slide hammer: thermoplastic elastomer.	

Note:

- If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
- If there are any deviations, then the Bidder must specify the deviations in the designated column.

[BIDDER’S SEAL AND SIGNATURE]

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20) **ITEM:** BEARING PULLER, 2 ARM, WIDTH OF GRIP: 16-65MM, EFFECTIVE ARM LENGTH: 60MM, DESIGNATION: TMMP2X65, MOC: ALLOY ENGINEERING STEEL HARD or EQUIVALENT BEARING PULLER.

(GAIL Material code: 6160059823).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	Range of width of grip external: 15.0 – 65.0 mm.	
2.	Number of arms: 2	
3.	Effective arm length: 60 mm.	
4.	Claw height: 8 mm.	
5.	Claw length: 7 mm.	
6.	Claw width: 10 mm.	
7.	Total spindle length: 138 mm.	
8.	Material of Construction: Alloy engineering steels, hardened and tempered.	

Note:

- If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
- If there are any deviations, then the Bidder must specify the deviations in the designated column.

[BIDDER’S SEAL AND SIGNATURE]

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21) **ITEM:** TOOL, BEARING FITTING, 10 mm – 80 mm.

(**GAIL Material Code:** 6142259513).

Bidder has to fill the following table:

S. No	Technical Specification	Bidder to Specify/ Confirm
1.	TOOL, BEARING FITTING, BEARING INNER DIAMETER: 10 - 80 MM, MOC: ALLOY STEEL, MACHINED, HARDENED AND PRECISION GROUND	
2.	Tool fully complies SKF's TMFT 36 tool standard.	

Note:

- If the bidder fully complies with the technical specification, Bidder has to write “**Confirmed**” in the respective column.
- If there are any deviations, then the Bidder must specify the deviations in the designated column.

[BIDDER'S SEAL AND SIGNATURE]

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