# 3 LPE COATED LINE PIPE

Sizes: 16" OD x 0.375" WT, 18" OD x 0.406" WT & 20" OD x 0.438" WT

FOB/C&F & FOR (Only for Local Manufacturers SRO 827(1)/2001)

(Under Single Stage Two Envelope Bidding Procedure)

Under PPRA Rules 2004, Rule# 36 (b)

Only for those Manufacturers having facilities for both Line Pipe and Coating Application under One Roof along with valid API SL Certification (for Steel Line Pipe) and API Specs Q1/ API QR/ API QMS (for 3LPE External Coating Application) and ISO 9001, ISO 14001 & ISO 45001 Certifications.

# TENDER ENQUIRY NO: SSGC / FP / 13639

Bid Closing date of time: 24-02-2025 at 1000 Hrs. Bid Opening date of time: 24-02-2025 at 1030 Hrs.

Fixed Bid Security; USD=2200 OR PKR= 635,000.

Note: Tender document is also available online on SSGC website for view only. Bidder is eligible to participate in bidding process only after purchasing the tender documents from Tender Room SSGC Head Office as per the procedure mentioned in the Poss Ablication / SSGC website. It is mandatory for bidders to attach original Token Slip in front of the Sealed Envelope (issued at the the possible of purchasing) as an evidence that supplier has purchased the Tender documents. Further, any Corrigendum/Clarifications/Addendums/Extensions is likely to be notified to only those bidders who have purchased Tender documents.

## Venue:

Tender Room, CRD Building, Ground Floor SSGC Head office complex Karachi -75300 Ph.99021024 – 99021173 - 99021116



Procurement Department, 2<sup>nd</sup> Floor, ST-4/B, Block-14, Sir Shah Suleman Road, Gulshan-e-Iqbal, Karachi-Pakistan. Phone: 99021231, 99021223, Fax: 99231583 <a href="https://www.ssgc.com.pk/ssgc">www.ssgc.com.pk/ssgc</a>

# **Checklist for Bidders**

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	Engairy No	Opening Date	The state of the s	Time	وخواء جيهدنيو بين
			Phone No.		
	M/s:	****			·······
سند عند	e ensure before submitting the bid, th	at following information /	documents have been si	Ibmitted I	•
Pteas	6 GIRMS heldie bobilitailia the side as	dent eine der er er er in der er e		1	
provid	led along your bid. Check ( ) appropr	late box.	• •		

S. No.	Details of required information / documents	Yes	No 
1,	Each & Every Page of the bidding documents shall be signed and stamped by the bidder.	#W1444 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 # 144 #	
2.	Technical Compliance sheet (if applicable) has been filled	e white years of the second	**************************************
ġ.	Pixed Bid Bond as specified in the binder document.		- Little Company
4.	Bir validity as specified is manufored		ا انتخ <del>ار درانی</del>
5.	Delivery period has been specified	-	******************************
6.	Country or Origins	14 7	in the state of th
7,	Statute (Mananty / Guarantee) (Mapplicable)		
8.	Original Parior pa Invoice of Principal		
<del>\$</del> .	The state of the s	akı Kenterinin	
10.	Criginal Authorization Microf Principal	6	
11.	Original Authorization Labor of Manufacturer		
12,	Estimated item wise we and activiting gross weight & volume of consignments		
13.	Port of Shipment (specific transfer Air / Sea Port is required) in case the city mentioned to the bidder does not have any lort, the FOS charges to the port of shipment will be borthe in the supplier.		
14.	LIC confirmation charges (if desired by odd shall be borne by the supplier		
15.	L/C charges at supplier's and shall be to the supplier		
16.	Both FOB & C&F rates are guoted(C&F rates Flour be based on PNSC freight)	<u> </u>	<del></del>
17:	Sample (if necessary) is enclosed		<del></del>
18.	Sample (if necessary) is encosed  Alternative offer (in any) submitted should be on as per Section & Schedule of Requirem is Bid Form fermat. For each alternative offer separate to a bid bond is required,		
19.	Deviations from tender terms (If any) have been stated in section 3 Schedule of Requirement & Bid Form format. At any stage of process and after an ordinary Tender lattice will prevail.	. Annualis	
20.	Firm name of Beneficiary & Bank details with complete address of be life at		
21.	Original Bld + One Copy is Submitted		
22.	Form-X and bid securing decileration Duty Signed & Stamped.		1.

NOTE

Non-evaliability of the above information/decuments, or incomplete/incorrect statement on this and in may result in rejection of the bid at / after the bid opening.

the per SR02080)/2023 dated per Manub 2021 "E-Pak Procurement Regulations, 2023" all adders are advised to register in e-Pak Acquisition and Disposal System (EPADS).

Bidders Authorized Representative



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# Sui Southern Gas Company Limited (SSGCL)

# Contents

Part-A		
Section - 1	dens a Terms & Conditions	Included
Section - 1A	Additional Terms for Tenders on	Included
	FOB/Late Basis	
Section-2	Special Conditions of Tender Document	Included
A =	Format of Bid Bourgark Guarantee	Included
Annexure-A		
Annexure-B	Format of Performance ounk Guarantee	Included
Annexure C	Declaration by Supplice	Included
Part-B	1/_	
- Section - 3	Bid Form (Schedule of requirement)	Included
Section - 4	Specifications/Drawing (if applicable)	Included
Section - 5	HSE & QA Awareness for Suppliers &	()
	Contractors	in the led



#### SUI SOUTHERN GAS COMPANY LIMITED Procurement Department

M/s		<u>.</u>
		<u> </u>
•,	Tender Enquiry No.	

#### INVIATION TO BID

Sui Southern Gas Company Limited, (SSGCL) has pleasure in extending you an invitation, to submit bid for the subject material according to Terms and Conditions specified in the attached Tender Document. Please read following instructions before submission of bid:

- Bids are the submitted in sealed envelope provided with the tender, indicating Tender Enquiry Number & its specific date and time on the face of the envelope.
- 270 of the total FOR / FOB value shall be enclosed with the bid without which bid will be 2. Bid Bon ( rejected and returned to bidder unannounced. The Bid Bond shall remain valid till the last date of the month in which it is expiring
- In case the bid opening the falls on a holiday or due to some unavoidable circumstances, it is not possible to open on scheduled take, it will be opened on next working day at the same time and at the same venue.
- 4. The bidder shall bear all expenses associated with the preparation and delivery of its bid/sample and the Company will in no case or itself a this respect.
  5. Prospective bidder requiring any mormation or clarification of the tender may notify the same by fax or at the mailing address. The Company will respond to any request for explanation or clarification, if received within reasonable time prior to subn. sa n
- 6. The Company reserves the right to can delete or amend tendered items/quantities/any part of the tender during the bidding period without a gany reason. However, bidders shall be informed about it prior to bid opening/process.
- 7. The Company reserves the right to accept or reject bid or part of a bid or to annul the bidding process and reject all bids at any time prior to award of compression purchase order without thereby incurring any liability to the affected bidder(s).
- 8. In case of Single stage two (02) envelope bidding precedure if mentioned in press advertisement & Tender document), sealed technical offer & sealed bid shad be submitted in separate envelopes Bid Bond will be enclosed with "commercial" bid. "Technical Proposal" and "cfi ancial Proposal" is to be mentioned on the top of the envelope. Technical offers will be opened and evaluated first. Financial offers of only technically compliant bidders will be opened at a later intimated date in presence of bidder's representatives. Financial proposal of technically non-compliant bidden returned un-opened along with their bid bond.
- 9. For Tenders invited on F.O.B/C&F basis, conditions as mentioned in 1A will also apply.
- 10. The Company will appreciate confirmation by fax No 92-21-99231583 or email 7 mm e@ssgc.com.pk or to DGM (Procurement) of your intention to submit the bid and if not interested in an of bid, it will be appreciated if it is intimated through fax or email with mentioning of reasons.
- 11. Bids are required to be submitted at:

Tender Room, CRD Building, Head Office Complex, Sir Shah Suleman Road Gulshan-e-Iqbal, Karachi Pakistan. Ph. 0092-21-99021024, 0092-21-99021223, 0092-21-99021279, 0092-21-99013074, Fax # 0092-21-99231583, Email: mmte@ssgc.com.pk

Hope and look forward for your valued participation.

Thanking you

Yours sincerel

General Manager (1 curement



Procuremer Dept.

#### General Terms & Conditions

#### Submission of bids:

- Bids are to be submitted in sealed envelope provided with the tender (in such a manner that 1.1. contents are fully kept enclosed and cannot be seen until opened) indicating tender enquiry number, its opening date and time on the top of the envelope. Envelopes shall be addressed to General Manager (Procurement Department) on the address provided on "invitation to bid". Envelope shall indicate the name and address of the bidder for returning the bid in case it is declared late or submitted without bid bond.
- Sealed bids (as above) shall be mailed/submitted/dropped in tender box placed at Tender Room, CRD Building, SSGC Head Office. Bids are to be delivered on or before closing time after which will not be entertained. In case bid is sent through courier, the same shall be delivered at least hour before scheduled opening time.
- Corpany may at its discretion extend the closing date for the submission of bids, in which 1.3. and obligations of the purchaser and bidders previously subject to the closing date will ther after be subject to the date extended. However, any request for extension received from prospective bices less than one week prior to bid opening date may not be entertained. In case of extension in bid pering date, the same will be advertised in press and simultaneously shall be intimated to prospect elaidder who had purchased the tender documents.
- The bid shall contain terlineations, erasures or overwriting except as necessary to correct the 1.4 errors made by the bicker, in case of any correction etc. it shall be signed and stamped by the person signing the bid.
- The quoted price shall be clasive of all duties/taxes except GST, which is to be mentioned separately. The supplier shall decare (if applicable) regarding non-applicability of GST for which documentary evidence shall be enabled to could be produced upon demand. could be produced upon demand.
- Rates shall be item-wise, as given a price schedule/schedule of requirement/Bid Form unless otherwise specified.
- Bidder is responsible for timely delivery of oils at location specified 1.2 above. Company will not be responsible for misplacement/tampering/s.m. dance/delay or any other incident in case the bid is not delivered at the designated place & time.
- 1.8:
- Any bid received late after the closing date and time, will rejected and returned unopened.

  The quotation shall only be acceptable on/as per Bid on. In case for foreign tender when Local 1.9 Agent submits bid on behalf of different bidders, a separate Fid Bond for each Bid is required. parate bid bond for each bid is Likewise for tender when bidder submit alternative bids required or else bid will be liable for rejection.
- Deviation from tender terms and conditions is not allowed wever, in unavoidable 1.10 circumstances, these shall be mentioned at the bottom of "Section 3: P.d Prm" deviation on any other page will not be entertained. . .
- Discount offered (if any) shall be mentioned on the "bid form" only. 1.11
- The bidder(s) or their authorized representative shall put his full signature with tamp & date on each page of tender document as well as enclosure vis-a-vis drawings, specifications etc. Any 1.12 correction, overwriting shall be duly signed & stamped.
- The bid is to be completed and returned to the Company in accordance with, General terms & 1.13 conditions. General terms & conditions duly signed & stamped (as a token of acceptance) shall be submitted along with Bid Form (Price schedule) duly completed as per requirement. However, specifications/drawing is to be retained by bidder for their future references.

#### 2. Eligible Countries / bidders:

The invitation for bids is open to all manufacturers/suppliers/stockiest/dealers/pre-qualified bidders but is not applicable to those countries where inter trade protocols with Pakistan do not exist or those countries from where imports are not allowed by Government of Pakistan.

#### Qualification/Disqualification of Suppliers: 3.

The Company, at any stage of the procurement proceedings, having credible reasons for or prima facie evidence of any defect in supplier's or contractor's capacities, may require the suppliers or contractors to provide information regarding their professional, teclinical, financial. legal or managerial competency, The making polymer to

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whether already pre-qualified or not. The Company shall disqualify a supplier or contractof if it finds, at any time that the discussion regarding their qualification as supplied as coessilation was valued in a contractor. Black Listing Mechanism inaccurate or incompletent Mechanism

#### Joint Ventures: 4.

In the event that the successful bidder is a joint venture (formation of two or more companies), the Company will require an undertaking on judicial stamp paper that the parties to the joint venture accept joint and several liabilities for all obligations under the purchase order/contract.

#### Clarification of tender documents: 5.

Prospective bidders requiring any further information or clarification of the tender documents may notify, the Company in writing or by fax or at the Company's mailing address indicated in the "invitation to bids". The Company will respond in writing to any request for information or clarification of the tender documents, if received five working days prior to closing date for the submission of bids prescribed by the Company. The pmpany response (including an explanation of the query) will be sent in writing or by prospective bidders who have purchased the tender documents. Verbal fax/e-mail will not be acceptable. instructions/refe

# Modification and withdr wal of bid:

- othdraw its bid after the bid submission, provided the written notice of The bidder may modified by the modification or withdrawa is received by the Company prior to the deadline prescribed for tations are opened, no bidder shall be allowed to revise, propose submission of bid. After the or request any change in the bid.
- The bidder's modification or withd all notice shall be sealed and addressed to GM (P). A withdrawal notice may be sent by far to oved by a signed copy.
- Bids once opened cannot be withdrawn d alidity period.

#### Bid validity: 7.

f Two Envelope bidding procedure) from the All offers shall remain valid up to 90 days (120 days date of opening of bids, until any further extension agreed by the bidder. If the bidder agrees for extending bid validity the bid bond shall also be extended accordingly. Solder giving extension to his bid validity will not be required or permitted to modify his bid. If there we have any query/clarification or extension request asked by the Company, the bidder should reply the same with 7 days after receipt of the same and if bidder takes more than 7 days the delay in reply will be added to their at validity period.

#### Rate Escalation: 8.

#### All items except line-pipe:

Quoted prices shall remain valid, firm, irrevocable and fixed till the ful illy est of obligations by the bidder and will not be subject to escalation / change on any account.

#### Line-pipe only:

- 8.2.1 Bidders are essentially required to submit detailed breakdown of rates indicating a con price of a) H.R. Coil.

  - b) All other charges (including wastage, transportation, conversion cost etc).
- 8.2.2 Rate / price offered by the bidders shall be firm and irrevocable. However bidder offering pipe manufactured from Pakistan Steel Mills (PSM) HR coil are required to submit certified documentary evidence of HR coil rates. Adjustment in line-pipe rates (from the bid opening date till the currency of order) due to change in rate of HR coil manufactured by PSM is admissible to the extent of raw material cost without wastage. The bidders are required to submit certified documentary evidence of HR coil rates published by PSM, at the time of submission of bids. SSGC may verify the document / rates from PSM.
- The variation clause however shall not be applicable on line-pipe quantities which were 8.2.3 delivered within 20 days of the announcement of the variation (both days inclusive) in price of HR coil by P\$M. ern G

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- 8.2.4 The variation clause also shall not be applicable on the line pipe quantities delivered after the specified delivery schedule (total or monthly consignment wise) -
- 8.2.5 No escalation is applicable on line pipe manufactured from imported HR coil.

#### Bid bond (earnest money):

Bid bond equivalent to two percent (2%) of the total offer value, in favor of Sui Southern Gas Company Ltd. shall accompany the bid if bid value is above Rs.500,000 in the form of pay order, demand draft, call deposit receipt or a bank guarantee (specimen of bank guarantee is attached at Annexure-A), issued by a scheduled bank in Pakistan. The bid bond shall remain valid for 120 days (150 days in case of Two Envelope bidding procedure) unless specified otherwise. The bid bond shall be returned/refunded to the unsuccessful bidders while the bid bond of the successful bidder shall be retained, till submission of Performance bond (if applicable). Bids without bid bond will not be considered. In case the order value is less that R: 00.000 the bid bond in lieu of performance bond will be retained till fulfillment of obligations of upplier. However, in either case the bidder is responsible to arrange the extension the pplier. However, in either case the bidder is responsible to arrange the extension the bid bond validity are requirement. If bid bond submitted by the supplier is more than 2% of ordered value, it may be replaced with appropriate value. If order value is less than Rs. 500,000, the bid bond will be returned along with theorder. Bid bonds of non-compliant bidders may be released during evaluation process. The bid bond was be forfeited if a bidder withdraws the bid duringvalidity period specified by the bidder or if successful bidd a fail to:

- Accept purchase ord
- Furnish performance guarance in accordance with clause 16 of Section 1, Supply material as per requirem in and delivery schedule.
- ort of the prescribed period of 120 or 150 days as the case 9.1 In the event of bid bond validity follow may be either (i) due to extension in the bid submission date or (ii) where so required by the procuring agency, then in such an event it shall be may rate y on the padder to extend the bid bond validity upto al prhyosal / bid, and / or where so required by the 120/150days within 30 days of the opening of procuring agency....
- 9.2 In the event of the bid security amount deposited / fundshed by the bidder falls short by 10% of the requisite Bid security amount. The procuring agency keep yiew the nature of the procurement 10% amount, provided the bidder may consider and allow the bidder to deposit / furnish the bala does so within 15 days of the opening of the bid. Notwithstan in all other terms & conditions have been fully complied with.

#### Opening of bids:

Bids will be opened in presence of bidders or their authorized agents at the address revided on "invitation to bids". The bidder's representatives who are present shall sign the bid opening sheet (ttendance sheet) to mark their attendance/witness. Commercial contents of bids will be announced/received n bid opening sheet.

#### Preliminary Examination of bids:

- The Company will examine the bids to determine their completion, computational errors, provision of guarantees, authorized signature and other related matters.
- Arithmetic errors will be rectified on the following basis. Discrepancy between unit price and the 11.2 total price obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price will be corrected. Discrepancy between total bid amount and the sum of total prices, the total prices shall prevail and the total bid amount will be corrected.
- 11.3 Prior to a composed evaluation, the Company will determine the substantial responsiveness of each bid to the bidding documents. In Company's opinion a substantially responsive bid is the one which conforms to all the terms and conditions of the bidding documents without any material deviation.
- Bid determined as not substantially responsive will be rejected by the Company and cannot subsequently be made responsive by the bidder through correction of the non-conformity.



12. Clarification of submitted bids:

To assist in the examination, evaluation and comparison of bids, the Company may at its discretion inquire my elarification from bidder about their bid. All responses by bidders shall be provided in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

#### 13. Technical Literature & Samples:

The Bidder(s) shall submit the following:

- 13.1 Samples (if applicable/required)
- 13.2 Original or legible copy of technical literature/performance characteristics
- 13.3 Test Certificates (if applicable/required)
- Documentary evidence for legal import in case of imported material. (At the time of delivery when quoted on FOR basis)
- In case of pipeline operation material bidders must also attach a "proof from supplier/
  manufacturer, that goods offered have been used successfully on a high pressure natural gas pipeline
  elsewhere under tropical climatic conditions.

13.6 Specification ompliance Sheet:

Company services a clause-by-clause commentary on the Specifications, demonstrating the materials responsiveness to those specifications or a statement of deviations and exceptions to the provisions of the specifications, if the required/desired. For purposes of the commentary to be furnished pursuant to above, the bidder that note that standards for workmanship, material and equipment and references to brand names of catalogue numbers, designated by the Company in the specifications are intended to be descriptive only and not restrictive. The bidder may substitute other authoritative standards, brand names and a catalogue numbers in its bid provided which demonstrates to the Company's satisfaction that the specifications by the Company.

Bid which does not possess above door nen's, certificates etc., may be considered technically Non-compliant.

- 13.7 The offer shall be accompanied with all technical nation of the basis of data/ documents/certifications as required under the tender specifications. Evaluation shall be carried out of the basis of data/ documents/certifications submitted with the bid. No clarification, additional laffermation may be sought / accepted after bid opening.
- 13.8 Deviation to technical specifications:

The bidder shall fill the "technical compliance sheet" and mention of fered specifications along with reference to its technical brochure/literature (page/clause No.etc). State tent such as "Compliant" or "Confirmed" is not acceptable. Deviation to tender terms and technical specification is not acceptable. However, if bidder feels to mention minor deviation, the same shall be referred categorically on the "Bid Form" as well as on the technical compliance since acting reference of its technical data sheet/brochure. In case of insufficient information, data or documents, the Company is not liable to seek clarification and the bid may be determined non-consiliation provided information.

#### 14. Award/Evaluation Criteria:

- 14.1 In case of locally manufactured items e.g. service line material & meter components, manufactured by local vendors, the lowest bidder will be awarded maximum quantity as per his declared capacity and past performance in respect of delivery and quality. New vendors / manufacturers shall also be considered for placement of a purchase order up to a maximum of 10% of the tender quantity if their submitted sample has been tested and approved and provided they have quoted lowest price or agree to accept the order on lowest received price.
- 14.2 Generally for other items other than above, ordering shall be based on technical compliance and lowest quoted price. Supplies may be subject to pre shipment inspection and post qualification by a third party in case of foreign material. If required during the process of manufacturing and / or inspection. SSGCL representative may visit the manufacturer facility to witness the manufacturing / inspection process.



- 14.3 Evaluation may be carried out both on item or on group of items/single or multiple package basis depending upon the nature of requirement exclusively at the discretion of the compatity to ensure economic procurement.
- 14.4 Company reserve the right to settle the final terms of supply with the lowest evaluated and commercially responsive bidder: Any effort by the bidder (s) to influence the outcome of bid evaluation or placement of purchase order may result in disqualification of the bidder.

#### 15. Loading of Bids:

Bids may be loaded with following if offer found to be deviated from specifications, delivery schedule, terms & conditions without stating the amount involved in such deviation by following method:

- 15.1 The cost of compensation / loading amount for that item shall be derived from the bid itself.
- 15.2 If 15.1 is not possible, average of rates of other bidders, who have quoted for that item conforming technical specification, shall form the basis for cost compensation/loading.
- 15.3 Company will encourage participation by local bidders who will be given price preference.

  Larged ost factor shall be determined as per prevailing Government policy / SRO. However they will so mit details of local value addition on raw material imported by them and percentage of locally primitactured component with documentary evidence.

#### 16. Performance Bond:

- 16.1 In case purchase order value is above Rs:500,000, the successful bidders shall submit performance bond guarantee which it be submitted within ten days from receipt of LOI or order along with integrity pact. The successful bidders shall submit a performance bank guarantee (PBG) in the form of a pay order or bank guarantee (specimen attached at Annexure-B) issued by a scheduled bank in Pakistan, for an amount equivalent to 10% of the total value of the purchase order or as specified, in the "letter of intent". The performance without unless specified otherwise; shall remain valid till;
  - 16.1.1 Completion of final satisfies y belivery in case of consumable items.
  - 16.1.2 12-18 months from the date sat factory delivery of the equipment/machinery.
  - 16.1.3 Satisfactory delivery/installation of system in case the installation responsibility is on supplier's part.
  - 16.1.4 120 days in case of chemicals.
  - 16.1.5 In case of locally manufacturing item, item BG equivalent to 3 months delivery schedule will be required after placement of purchase ander which should remain valid till completion of final satisfactory delivery of an address quantity.
  - 16.1.6 In case of small diameter line pipe (MS/MDPE) the BBG shall remain valid up to 3 months after completion of satisfactory final deliver
  - 16.1.7 In case of Vehicles, Manufacturer's Warranty is required report PBG.
- The guarantee will be released after completion of this period, subject to a signature performance of the supplied equipment/machinery/system as mentioned at 16.1 above. The supplier shall keep the guarantee valid at their cost until fulfillment of the obligations.
- In case the bidder does not submit the performance bond as specified, the divertisme of goods shall be deemed to have commenced 10 days (15 days in case of import) from the issuance of letter of intent/purchase order. The proceeds of the performance bond shall be payable to the Company as compensation for any loss resulting from the supplier's failure to complete its work under the purchase order/contract. The validity period of the performance bond is to be extended if the delivery date/period is being extended mutually by the Company/Supplier.
- 16.4 The performance bond will be discharged / returned by the Company not later than thirty (30) days following the date of completion of the supplier's work under the purchase order/contract including any warranty/guarantee/performance obligations as specified in the special conditions of contract. The supplier shall not be absolved of their liability to perform in case of encashment of performance bond by the Company, who shall have the right to claim and receive all damages/losses incurred due to non-performance.
- The Company shall promptly notify the supplier in writing for any claim arising under this guarantee. Upon receipt of such notice, the supplier shall promptly repair or replace the defective goods or parts thereof, without cost to the Company other than, where applicable the cost of inland delivery of the repaired or replaced goods or parts from the port of entry to the final destination.

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- 16.6 If the supplier, having been notified, fails to rectify the defect (s) in accordance with the purchase order/contract, the Company may proceed to take such remedial actions as may be necessary at the supplier's expense. Any amount payable by the supplier under this clause may be recovered by the Company by withdrawing from the performance bond without having to notify or seek the approval of the supplier.
- 16:7 Nothing herein contained shall be construed to limit supplier's obligation of performance of the order/contract to the value of the performance bond.
- 16.8 Guarantee/Warranty:In case where performance guarantee is not applicable, the supplier shall confirm that all suppliedgoods under the contract/purchase order are new, unused, of the most recent or current modelsand incorporate all recent improvements in design and goods unless provided otherwise in the contract/purchase otder. This guarantee shall remain valid for a period of twelve to eighteen months after the goods have been delivered or commissioned.

17. Purchase Office/Contract:

Purchase of guoted material may be placed on fulfillment of conditions mentioned at 14 &16 above which is th smal confirmation for proceedings with the suppliers.

#### 18. Assurance:

The successful bidds will be required to give satisfactory assurance of its ability and intention to deliver the goods, pursuant to the conder enquiry and contract within the time set forth therein:

#### 19. Force Majeure:

- ereto being rendered unable, wholly or partially, by force majeure 19.1 circumstances to carry out its obligations under the purchase order/contract documents, such party shall give notice and full partiallars and other satisfactory evidence of such force majeure circumstance(s) in writing or by fact the other party within 7 days after theoccurrence of the circumstance(s) in writing or by the other party within 7 days after theoccurrence of the cause(s). Relied upon the obligation of the party giving such notice so far as they are affected by such force majeure shall be suspended for the period during cause(s) shall, as far as possible, be remedied and obviated with all reasonable dipatch. The term 'force majeure' as employed herein, shall mean acts of God or public enemy, circli sourcection, fires, floods, earthquakes or other physical disasters, order or request of government. Plockade or embargo. It is, however, clarified that strikes, lockouts, shortage or non-availability of the materials, rains, and disturbances, other that strikes, lockouts, shortage or non-availability of the materials, rains, and disturbances, other labor dispute or congestion's in ports on the supplie is de shall not be included in the term force majeure'.
- In case the force majeure contingencies last continuously for meet than one month, both parties will agree on the necessary arrangements for the further implementation of the purchase order/contract. In case further implementation is unforeseeable and impossible, both parties shall arrange for the termination of the purchase order/contract, but without a bidice to their rights and obligations prior to such termination it being understood that each party sharts fill its contractual obligations so far as they have fallen due before the operation of force maj ure

#### 20. Amendment in purchase order/contract:

- The Company may at any time by a written notice to the supplier make changes within the general scope of the purchase order/contract in any one or more of the following:-
  - 20.1.1 Drawings, designs or specifications where goods to be furnished under the purchase order/contract are to be specifically manufactured for the Company.
  - The method of shipment or packing.
  - 20.1.3 The place of delivery.
  - Quantities of item up to a maximum variance of +15% of purchase order/contract value.

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- Company reserves the right to increase/decrease the quantities or delete any or all items listed in 20.2 the price schedule/schedule of requirement/bid form without assigning any reason.
- Upon notification by the Company of such modifications the supplier shall submit to the Company an estimated cost for the proposed modification within ten (10) calendar days of receipt of notice of the modification and shall include an estimate of the impact (if any) of the modification on the delivery dates under the purchase order/contract, as well as a detailed schedule for the execution of the modification, if applicable.

- 20.4 The supplier shall not perform modification in accordance with clause 20.1 above until the Company have authorized a modification order in writing on the basis of the estimate proyided by the supplier as described in clause 20.3.
- 20.5 Modification mutually agreed upon shall constitute a part of the work under the purchase order/contract and the provisions and conditions of the contract shall apply to the said modification.
- 20.6 If modification made by the Company results in a variation in purchase order/contract quantities whose net cost effect is within 15% of the total value then the original purchase order/contract rates would be applicable. Any "modification" affecting the quantities and the corresponding cost effect beyond 15 percent would be mutually agreed upon between the Company and the supplier.

21. Extension in delivery period:

- 21.1 Drave y of the goods shall be made by the supplier in accordance with the schedule of requirement and delivery period; however, the supplier may claim extension of the time limits as set forth a line schedule of requirements and delivery period in case of
  - 21.1.1 Moration in the goods ordered by the Company pursuant to clause 20.
  - 21.1.2 Delay is provision of any services which are to be provided by the Company (services provided by the Company shall be interpreted to include all approvals by the Company under the company content to the company content to
  - 21.1.3 Delay in performance of work caused by orders issued by the Company.
- 21.2 The supplier shall demonstrate to Company's satisfaction that it has used its best endeavors to avoid or overcome such causes or dray and the parties will mutually agree upon remedies to mitigate or overcome such causes for the ty.
- Not withstanding clause 21.1 above, it is pulier shall not be entitled to an extension of time for completion unless the supplier at the time of high circumstances arising, immediately has notified the Company in writing of any delay that it have claim as caused by circumstances pursuant to clause 21.1 above and upon request of the Company, the supplier shall substantiate that the delay occurred is due to the circumstances referred by the supplier.

#### 22. Packing:

- 22.1 The material shall be in original/sealed packing to ensure delivery without any damage during transit.
- 22.2 If any of the good is discovered to be damaged or unacceptable at the point of embarkation, the supplier shall be responsible for replacement of those goods from any charge and cost to the Company, within the delivery time schedule of the contract/purchase rate.
- 22.3 The identification marks showing contents, quantity and contract/purchase order number shall be printed on each skid/metal container/case containing one copy of invoice & passing list.
- Handling and Transportation:

  The Supplier shall arrange for the proper stacking of the Goods and for its proper storage and lashing and for other such provisions/suitable measures as may be necessary to safeguard against movement and damage to the Goods from the point of loading to its designated destination.

#### 23. Inspection:

- 23.1 Pre-delivery inspection may be carried-out at the premises of supplier(s) and/or post delivery inspection at company's any location, by the appointed inspector/inspection team, third party inspectors appointed by the Company.
- 23.2 The Company reserves the right to arrange inspections and tests to the goods or manufacturing processes at any stage at any of the premises of the supplier or its subcontractor(s) or and at the point of delivery end at the goods final destination. Where conducted on the premises of the supplier or its sub-contractor(s), all reasonable facilities and assistance including access to drawings and production data shall be furnished to the inspectors at no charge to the Company. Such inspection, however, shall not relieve the Supplier to fulfill the obligations under the

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Procuremen Dept. purchase order/contract. If goods fail to conform to the specifications, the Company may reject

#### 24. Delivery:

- 24.1 Free delivery at any of the following locations, unless specified otherwise:
  - 24.1.1 R & D Section, Stores Department Abul Hasan Ispahani Road, Karachi.
  - 24.1.2 R & D Section, Stores Department F-37, SITE Karachi.
  - 24.1.3 R & D Section, Stores Department F-76, Dope Yard SITE, Karachi
  - 24.1.4 Meter Manufacturing Plant, Sir Shah Suleman Road, Gulshan-e-Iqbal Karachi,
  - 24.1.5 Khadeji Store, 57th Kilometer at Super High way Karachi.
  - 24.1.6 Any other location specified by the company.
- 24.2 Delivery period shall commence after 10 days (15 days in case of import) of the issuance of letter of intent or from the date of purchase order/contract whichever is earlier, unless otherwise specified.
- 24.3 The applier shall replace defective material at their risk & cost including transportation, duty,
- 24.4 GST are one if applicable be submitted at R&D section Stores Department along with material & delivery checks.
- 24.5 Unloading and stacking through cranes, fork lifters, labor etc. will be arranged by supplier at delivery site (for marrial like Pipes/Heavy Machinery & Equipment etc.).
- delivery site (for marrial like Pipes/Heavy Machinery & Equipment etc).

  24.6 Delivery is to be made strictly in accordance with "delivery schedule" as specified by the Company.
- 24.7 The rejected material is to collected/lifted by the supplier within a maximum period of one month after its intimation, the Company. Beyond specified period, the Company shall not be responsible for storage/safety of a monocllected material.

#### 25. Delivery Failure:

- 25.1 In case the supplier fails to supply supplies material within the stipulated period, the Company have the right to make an alternative arrangement for the purchase of the goods on such terms as may be offered. In such event all losses, bear are charges sustained/incurred by the Company on stated purchase shall be recovered from the Septilier without prejudice to any other right or remedy available to the Company which includes recovery of losses sustained by the Company from any due payment of the said supplier.
- from any due payment of the said supplier.

  25.2 In the event Company remains unable to make such attematice arrangements, the Company has the right to recover from the supplier any or all losses sustained as a result of the supplier's failure to ship/supply the goods as per schedule of delivery.
- 25.3 In the event Company being forced to purchase any quantity or any other alternative not specified in this document as a result of any failure to supply/ship the materix, the Company shall have the right to terminate the contract/purchase order without prejudice to the contract or remedies available to the Company.

#### 26. Payment:

- 26.1 The supplier after delivery of goods and its acceptance shall submit invoice to Funce pepartment of the Company, containing following information i.e.
  - (a) Purchase order No. & date
  - (b) Items
  - (c) Quantity
  - (d) Price
  - (e) Invoice value
  - (f) Point of delivery
  - (g) Delivery challan indicating delivery date, etc.
  - Payment will be made within 30 days of completion of stated formalities.
- 26.2 Income Tax @ 3.5% or as applicable under the prevailing government rules will be deducted at source (except where the supplier provides an income tax exemption certificate). Quoted price shall be inclusive of all taxes, except GST, which shall be mentioned separately Supplier(s) are required to submit signed and stamp acknowledgement slip, Sales Tax return, Annex "C" & Annex "I" (whichever applicable) in which Sales Tax(of relevant Sales Tax invoice) is paid.

Procurement Dept.



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In case supplier is not liable to pay tax under the income tax ordinance or is liable to pay tax at a lower rate the supplier shall obtain a certificate from the tax authorities in Pakistan to that effect. In case the required certificate is not produced by the supplier prior to the date of payment, then the Company shall deduct tax at source from the gross payment payable to supplier.

#### 27. Liquidated damages:

- 27.1 If supplier fails to deliver ordered material within the stipulated period/scheduled time specified in purchase order, Company, without prejudice to any other remedies, shall deduct from the bill or any other due payments/guarantees, as liquidated damages, a sum equivalent to 0.1% per day of the undelivered goods up to maximum 10%. The liquidated damages shall also be applicable for the cancelled quantity of goods under clause 28.
- 27.2 Whenever liquidated damages become payable, in the event that delivery of all goods and equipment is not made within the time period specified except on account of force majeure, the chipany shall quantify the same and shall serve notice to the supplier requiring payment thereof.

  The supplier fails to remit payment within 15 days of receipt of such notice, the Company shall not will a become entitled to recover the same without recourse to the supplier, by calling upon The Period ance Bond, withdrawals by way of liquidated damages shall not reduce the value of the Performance bond.
- 27.3 The payment of liquidated damages shall not relieve the supplier from performing and fulfilling all its obligations added the contract/purchase order nor shall the right and entitlements of the Company be affect to be succed in any manner.
- 27.4 In case of order placed on FOB/C&F basis, the delivery period shall commence from the date of confirmation of L/C. However, delayed submission of PBG period in excess of time limit will be deducted from the delivery period for the purpose of recovery of late delivery charges.
- The liquidated damages shall be me sum equivalent to point one (0.1%) percent of the Contract price of the delayed goods as unpercorner services for each day of delay, until actual delivery or performance, up to a maximum ded crim of ten (10) percent of the Contract price. Once this maximum is reached, the Company may consider termination of the Contract at the risk and cost of the Supplier.

#### 28. Default by Supplier:

- 28.1 The Company may, without prejudice to any other remedy by written "notice of default" sent to the supplier, cancel the purchase order whole or in part; if
  - 28.1.1 The supplier fails to deliver any or all of the ordered at titty as per specified delivery schedule or any extension thereof granted by the Comp ny
  - 28.1.2 The supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation(s) under he supplier fails to perform any other obligation (s) under he supplier fails to perform any other obligation (s) under he supplier fails to perform any other obligation (s) under he supplier fails to perform any other obligation (s) under he supplier fails to perform any other obligation (s) under he supplier fails to perform any other obligation (s) under he supplier fails to perform any other obligation (s) under he supplier fails (s
  - 28.1.3 The Company during the delivery period has reasons to believe the the supplier will not be able to fulfill the obligations under the purchase order/contract.

    The Company prior to exercising its right to cancel the purchase brick (contract shall issue notice to the Supplier specifying the default(s) and the supplier shall submit an explanation within seven (07) days of receipt of such notice. If such explanation is not furnished within the stipulated time or if so furnished, is found to be unsatisfactory and/or the default(s) continues, purchase order/contract may be cancelled. The Company in addition to cancellation of purchase order/contract may suspend/cancel the enlistment of supplier.
- 28.2 The Company shall have the right to terminate/cancel the contract/purchase order concluded between the supplier and Company, if:
  - 28.2.1 The successful bidder fails to furnish the performance bond as under clause 16 thereof.
  - 28.2.2 The supplier fails otherwise to perform, fulfill or comply with terms, conditions, regulations and requirements of the contract/purchase order to carry out the work in accordance with the provisions thereof or abandons the shipment.
  - 28.2,3 The supplier becomes bankrupt or insolvent or makes an assignment for the benefit of its creditors.
  - 28.2.4 One or more consignments of material delayed by a period of more than three months or non-supplied.
  - 28.2.3 Rejection of manufacturing items as a result of observation by inspection team

- Penalty on higher rejection rate of supplied goods.
- ticae Secondinal despendential contra de la company de 28.3 The supplier shall have the right to terminate the contract/purchase order if:-
  - 28.3.1 The Company fails to establish the "letter of credit" within the stipulated period as
  - 28.3.2 The Company becomes bankrupt or insolvent or makes an assignment for the benefit of its creditors.
  - The Company is in default and breach of its obligation and liabilities under the contract/purchase order.

#### 29. Resolution of dispute:

The Company and the supplier shall make every effort to resolve the disagreement or dispute arising between them amicably by direct discussion under or in connection with the purchase order/contract.

#### Applicable law:

The purch order/contract shall be governed by and interpreted in accordance with the laws of the Islamic Rep ac of Pakistan.

#### Declaration/Integrally Pact/Certification:

- 31.1 Successful supplier shall furnish the declaration (specimen attached at Annexure-C) within 10 days after issuance of 20 Vorder /contract if the order/contract value becomes Rs:10 million or above.
- 31.2 In case of F.O.B/C&F Purel, so order/Contract, the Principal as well as "local agent" both will sign the "integrity pact" as required under this clause.
- :100/- non-judicial stamp paper certifying that they are not 31.3 Bidders to submit a certificate of 18:100/- non-judicial stamp paper certifying that the black listed by the Government/Any contrasts bodies and declared as defaulted supplier.

#### 32. Arbitration/resolution of disputes:

- 32.1 Any difference or dispute arising out of a in connection with the contract between the Company and the supplier which can not be amicably probed shall be referred to arbitration in Karachi, Pakistan, to two arbitrators, one appointed by activative of such difference/ dispute. In case the judgment of the said Arbitrator being at variance, we take shall be referred to an "umpire", who shall be appointed by both the side Arbitrators. The univershall be retired judge of a High Court or the Supreme Court of Pakistan. Such arbitrators and impire shall together proceed to adjudicate he disputes in accordance with the Arbitration Act, K. 45, as amended from time to time.
- 32.2 Prior to exercising any right by the Company or supplier to terminate the purchase order/contract under the conditions stipulated above, a return notice shall be applied to be given to the other party specifying such default(s) and calling for submission of an elementary within seven (7) days of receipt of such notice. If such explanation is not furnished within the stipulated time or if so furnished, is found to be unsatisfactory, and the default(s) continuous, the purchase order/contract be terminated with notice to other party.
- The agreement shall be governed by Law of Islamic Republic of Pakistan and be language shall be English.
- During the course of arbitration, the supplier shall not suspend the performance of his esponsibilities and obligations under the contract unless authorized by the Company in writing to do so.
- 32.5 In addition to the remedies as stated above, there is a "grievance committee" formed by the Company which can be approached by supplier in case of non-settlement of issues at any stage if supplier feels that settlement is not insight or not justified.
- 33. Redressal of grievances by the procuring agency.-
  - 33.1. Grievance Committee is in place to address the complaints of bidders that may occur prior to entry into the procurement contract.
  - Aggrieved bidder may lodge a written complaint concerning his grievances not later than fifteen .33.2 days after the announcement of the bid evaluation report. :
  - Bidder is to submit complaint on letter head duly signed by the authorized person. Tender reference, details / nature of complaint, complainant active telephone, cell, postal address, email



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address must necessarily be provided. Incomplete / anonymous complaints will not be responded at all.

33.4 The Committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint

33.5 Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.

#### 34. Blacklisting of Suppliers and Contractors:

The Company shall permanently blacklist or temporarily debar (at least for 6-months from participating in SSGC's tender proceedings) if, a supplier or contractor who either constantly fails to perform satisfactorily performance or found to be indulged in corrupt and fraudulent practices as defined below:

34.1 Corrupt and fraudulent practices" includes the offering, giving, receiving, or soliciting of anything of value to influence the action of an official/Company.

34.2 If the supplier/contractor found responsible for the detriment of the Company during proceedings procurement/contract, process or its execution.

34. Varepresentation of facts in order to influence the procurement process or the execution of the overlap order/contract.

34.4 Chur ve tractices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Company of the benefits of free and open competition.

# 35. Supplier's Guarante an Responsibilities:

The Bidder/Supplier shall are need that the materials supplied against this tender enquiry is new and is of acceptable quality and his been tried and approved on similar jobs. The validity and scope of such guarantee will be in accordance, with conditions stated in this document. In case the opinion of the Company the Goods fail to perform the services in accordance with the specifications specified in Section IV due to manufacturing defects defective material and/or workmanship, the Supplier shall replace, repair or reconstruct such Goods at his own cost in Pakistan wherever the Goods shall be located so that such Goods shall be restored to such conditions that it shall perform in satisfactory operating condition or to replace it with new Goods at Supplier cost so that the goods shall perform in accordance with the specifications and details as set forth in the Contract/tender documents. If the Supplier shall fail to do so after expiry of 15 days notice to the effect served on him by the Company, the Company shall be at liberty to repair, replace and/or reconstruct the Goods at its costs provided in the event, the Company shall be entitled to recover total cost of such replacement form the Supplier withdrawing from the Performance Guarantee.

#### 36. Language:

The bid prepared by the bidder and all correspondence and documer to lating to the bid exchanged by the bidder and the Company shall be written in English language. Any price literature furnished by the bidder may be written in another language provided that this literature is accompanied by an English translation in which case for purpose of interpretation of the bid, English translation shall govern.

37. Vehicle Applied by Authorized dealer of local manufacturer :

Incase of vehicle supplied ly authorized dealer of local manufacturer, the authorized dealer will be responsible to get the vehicle (s) registered through Excise Department Government Sindh and provide Original Registration book / Original Registration Invoice / Tax payment receipt / other related documents & provide the vehicle (s) number plate (s) to SSGC. Registration fee will be reimbursed by SSGC subject to submission of Government of Sindh Excise Department receipt.

Procuremen Dept.

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#### Additional Terms for Tenders on F.O.BJC&F basis:

#### 1. Submission of bids:

1.1 Bid bond (Earnest money) @ 2% of the total F.O.B value as per clause 9, of section 1 of "General terms & conditions" is required to be submitted with the bid. It may be noted that bids without bid bond will be rejected and returned to bidder.

1.2 In case the bidder is manufacturer the bid shall either be completely prepared by the foreign bidder including signing and stamping of all documents. In case, such documents are being signed by the local agent of the bidder, the bid shall essentially include supplier's original Performa invoice and an original authority letter in favor of local agent to sign the documents on their hehalf. The bid is liable for rejection if these conditions are not met.

1.3 In case of Bidder offering to supply goods which the bidder did not manufacture or otherwise produce, the bidder shall be ply authorized by the goods manufacturer or the producer to submit bid or supply the 12 / No. 1 goods on their bear

Bids shall be submated preferably through local agents) in two copies, (original + copy).

The price on unit F D and S&F basis is to be quoted separately. Following are to be essentially indicated in the bid form:

Country of origin. 1.5.1

Port of shipment. 1.5.2

- Estimated gross/net weight dimension & volume of offered item and estimated weight of each 1.5.3
- 1.5.4 Delivery period or schedule in case of bulk quantities.

1.5.5 Original technical literature.

Beneficiary's complete address. 1.5.6

l be borne by the supplier. 1.6 Foreign bank charges and L/C confirmation charges

1.7 Bid Currency:

hed States Dollars. A bidder expecting to incur The rates shall be quoted in bidder's home country of a portion of its expenditures in the performance of the Tip more than one currency and wishing to r\_bidder from Pakistan would be paid in be paid accordingly shall indicate the same in their bid. How Pak Rupee.

(Clause 1.5 of General Terms & Conditions is not applicable)

## Bid bond:

....

- 2.1 Bid bond shall be equivalent to two percent (2%) of the total F.O.B value, in favor of Sui Southern Gas Company Limited and shall be in the form of pay order, demand drain, all deposit receipt or a bank grantee (specimen attached at Annexure-A), issued by a scheduled bank in a limited. The bid bond shall guarantee (specimen attached at Annexure-A), issued by a scheduled bank in remain valid for 120 days (150 days in case of Single Stage Two Envelope of a procedure) unless specified otherwise. The bid bond shall be returned/refunded to the un-successful by as while the bid bond of the successful bidder shall be retained, till submission of Performance bond. Has retained bond will not be considered. In case the order value is less than US\$:25,000 the bid bond in her approximance bond, will be retained till fulfillment of obligations by the supplier. However, in either ca responsible to arrange the extension of bid bond validity as per requirement. If bid bond sub sited by the supplier is more than 2% of ordered value, it may be replaced with appropriate value. Bid bonds of noncompliant bidders may be released during evaluation process. The bid bond shall be denominated in the currency of the bid or any other freely convertible currency.
  - 2.2 Bid submitted on behalf of different principals shall be required to submit separate bid bond along with the bid for each offer.

(Note as mentioned at Clause 9, 9.1 & 9.2 of General Terms & Conditions shall also apply)

3. Conversion to single currency:

In order to carry out evaluation and comparison, the Company will convert all bid prices expressed in various currencies to Pak Rupees at the buying exchange rates established by the State Bank of Pakistan or any other commercial bank in Pakistan for similar transactions on the date of opening of bids. In case of Two Envelope Bidding System, the exchange rates prevailing at the time of opening of Technical Proposals will be used for conversion and evaluation.





#### 4. Evaluation Criteria:

4.1 The evaluation of bids will be carried out on C&F / landed cost basis, however purchase order will be placed on FOB price on freight to collect basis. The bidders are required to submit best freight charges obtained by them from Pakistan National Shipping Corporation (PNSC) in order to have a uniform basis to arrive at C&F cost, Bill of lading to indicate "freight payable by the consignee at destination" in local currency. Foreign currency exchange rate (selling) will be considered as of bid "opening date".

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- -4.2 In the case of goods to be offered from outside Pakistan, custom duties and other similar import taxes which are applicable shall be added to the bid.
- 4.3 In case shipment by air it shall be arranged through Company's airfreight forwarder (s) or their nominated agent. "on freight to collect basis".

(Clause No. 14.3 to 14.4 of General Terms & Conditions are also to be applicable).

# 5. Loading of Bid.

Freight charges from port of loading up to Karachi port or unit C&F value must be indicated in bid form, failing, while side will be loaded by 5 to 10% freight charges. Bid will be declared non-compliant if loading results an extensive increase in price of material.

(Clause 15 of General Jeans & Conditions is also applicable).

#### 6. Performance bond:

- 6.1 In case purchase order value is \$\infty\$ 25,000/- or above or equivalent for other currencies, letter of intent will be issued to successful bidders for submission of performance bond guarantee which is to be submitted within 15 days from receipt of L.O. The successful bidders shall submit a performance bank guarantee (P.B.G) in the form of bank guarantee (p.B.G) in the form of bank guarantee (p.B.G) in the form of bank guarantee (p.B.G) in the form amount equivalent to 100 of the total value of the purchase order or as specified, in the letter of intent. The performance bond unless processed otherwise, shall remain valid till:
  - 6.1.1 Completion of final satisfactory delivery is case of consumable items.
  - 6.1.2 12-18 months from the date of satisfactory at typy of the equipment/machinery.
  - 6.1.3 Satisfactory delivery/installation of system is as the installation liabilities will be on supplier's part.
  - 16.1.4 120 days in case of chemicals.
- 6.2 The Letter of Credit shall be operative upon receipt of Performance Bond (as specified in para6.1) and integrity pact, any delay due to late submission of Performance Bond will be on a policy's account. Late submission of PBG should not affect the delivery schedule.
- 6.3 The performance bond shall be denominated in foreign currency or in carrier of the contract/purchase order or in a freely convertible currency acceptable to the Company and shall be in the form of a bank guarantee.
- 6.4 In very special case subject to approval of the management, the P.B.G could be access abilined Pak Rupee. However, an undertaking should be given by the supplier that in case of encashment of C.B.G. supplier shall deposit short fall amount due to Pak Rupee exchange rate.

#### 6.5 Warranty/Guarantee:

In case where performance guarantee is not applicable, the supplier shall warrant that all goods supplied under the contract/purchase order are new, unused, of the most recent or current models and all recent improvements in design and goods have been incorporated, unless provided otherwise in the contract/purchase order. This guarantee shall remain valid for a period of twelve to eighteen months after the goods have been delivered or commissioned.

(Clause 16.2 to 16.8 of General Terms & Conditions are also applicable).

#### 7. Delivery:

7.1 In case of "FOB" order/contract, shipment(s) shall be effected per vessel of Pakistan National Shipping Corporation (PNSC) owned or chartered vessels on "freight to collect" basis. Bill of lading to indicate "freight payable by the consignee at destination". In case goods ready for shipment and the PNSC vessel is



not available at port of loading, supplier shall intimate the same to Company immediately so that matter could be taken with PNSC in Pakistan

- In case of C&F order/contract, the supplier hereby guarantees/ensure:
  - To use clean and dry vessel suitable for marine transportation and shall not use tramp vessels. 7.2.1
  - The goods/material will be shipped/dispatched with all care and diligence at their risk & cost and goods to be stored below deck. Accordingly, the supplier shall be responsible for all damages/losses during inland and marine transportation from the supplier's plant until arrival at Karachi port.
  - To provide as part of its work all services and functions related to handling, loading, unloading. 7.2.3 lashing and securing in ship's holds and all costs, charges and expenses of which shall be included in the purchase order/contract price, unless otherwise specified:
- 7.3 In case of FOB order/contract, the supplier's obligations shall be over after the goods have crossed the ship's rails. The co-ordination, scheduling and lining-up for a PNSC vessel shall be the obligation of the supplier.
- The supplier shall reimburse the Company all additional duties, taxes and other such charges paid by the Company on account of short shipment by the supplier for all items subsequently shipped on a no-charge basis or otherwise by the supplier. The supplier shall also reimburse the Company all additional duties, taxes es paid by the Company on account of incorrect invoicing by the supplier. and other such c
- ed to have been made when the supplier has shipped the goods against a clean bill of Shipment shall be seen cumentation, as specified in clause 9.3 & 9.4 appearing next in sequence) have lading and all other been furnished to the Company
- The supplier shall ensure that above mentioned acts and other incidental and ancillary functions are conducted in accordance with some and acceptable engineering practices. The Company shall be entitled to oppose any incorrect or inadequate practice adopted by supplier in this respect and the supplier shall take corrective action/measure forthwith to extrect such omissions. If any goods are discovered to be damaged or unacceptable at the point of loading, the supplier shall be responsible for replacement free of all charges and costs to the Company within the entitled to oppose any incorrect such omissions. If any goods are discovered to be damaged or unacceptable at the point of loading, the supplier shall be responsible for replacement free of all charges and costs to the Company within the entitled to

#### Insurance:

- against loss or damage incidental to manufactur or, equisition, transportation storage and delivery clause?
- Marine Insurance shall be the responsibility of the Company unless otherwise specified.

  The supplier shall advise the Company by fax at least set to says prior to the expected date of shipment, the following particulars:-
  - Name of the vessel and of the shipping company.
  - 8.3.2 Age of the vessel (which should be less than 20 years).
  - Lloyds 100Al or equivalent classification of the vessel.
  - ETD from Port of dispatch and ETA at Karachi
  - FOB/C&F value of the consignment.

VK/OP/002/73. Corporation by fax No. 0092-21-9202779 and to the Company referring Policy No. 1

#### Payment:

- 9.1 Payment of FOB/C&F prices shall be made in the currency of bid through an irrevood Payment of FOB/C&F prices shall be made in the currency of bid through an irrevocable later of credit (L/C) established in favor of the supplier, negotiable through the bank of their choice. Bidder shall indicate full name and address of the negotiating bank and the place at which they wish to negotiate the letter of credit. All bank charges outside Pakistan will be on supplier's account and all bank charges within Pakistan will be at Company's account. If confirmed letter of credit is required then charges for confirmation will be on supplier's account.
- 9.2 The supplier's request (s) for payment shall be made to the Company in writing as follows;
  - 9.2.1 It shall be accompanied by an invoice describing, as appropriate, the goods delivered and the services incurred and by shipping documents submitted pursuant to Clause 9.4 hereof and upon fulfillment of other obligations stipulated in purchase order/contract.
  - 9.2:2 Against shipping documents on arrival of ordered material at consignee destination. Bidder (s) will have to clearly mention, if they wish to opt for this mode of payment
- The letter of credit shall be available upon presenting the following documents to the negotiating bankwithin 15 days of the date of the bill of lading covering shipment of each consignment:



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9.3.1-	Invoice		4 copies
9.3.2-	Packing list	*******	4 copies
9.3.3-	True of morning margina as a harman and a second as a		3 originals &
	at destination" evidencing shipment in terms	•	6 non-negotiable
	of the purchase order to Karachi-Pakistan made copies.		
	out to order in the name of Co.'s bank, Notify	•	•
	party Sui Southern Gas Company Ltd.,	•	
9.3.4-	. Certificate of Origin (Verified/ Endorsed by Chamber of Commerce)	******	2 copies
9.3.5-	Manufacturers test certificate/	2copies	Inspection report.

9.4 Without prejudice to the supplier's responsibility for providing documents mentioned as at 9.3.1 to 9.3.5 above to bank, the supplier shall forward the following non-negotiable documents directly to Company immediately after shipment so as to reach the Company at least 15 days prior to the arrival of the vessel at Karachi port.

- 9.4.6 The invoice to be exactly as per order/contract. Any deviation which render or cause the company to pay demurrate of any other charges with respect to clearance/handling etc. will be borne by the supplier.
  - 9.5 No payment hereunder and be deemed to be accepted by the Company of the goods covered by such payment nor release he supplier from responsibility thereof under the terms of the purchase order/contract.
  - 9.6 If the Company is compelled to ray demurrage or storage charges or incurs any loss or suffers any damage at Karachi Port on account of non-compliance by the supplier of above requirements, the Company shall be entitled at their respection to recover the same amount from supplier.

## 10. Termination of purchases order by suppliers

- 10.1 The supplier shall have the right to terminate the ontract/purchase order if:-
- 10.1.1 The Company fails to establish the letter of credit with the stipulated period as required under clause 9.1 hereof after the supplier has made compliance with the provisions of clause 6.
- 10.12 The Company becomes bankrupt or insolvent or makes an again hent for the benefit of its creditors.
- 10.1.3 The Company is in default and breach of its obligation and lighth ies under the contract/purchase order.
- 11 Installation/Commissioning/Training:

If installation/commissioning and training is required, the charges will be paid in all Rupee and will be subject to deduction of all local duty and taxes (as applicable).

12 Vehicle (s) supplied by foreign manufacturer / principal:

- . 12.1 In case of supply of any type of vehicle (s) / earth moving vehicle (s) by the foreign principal / manufacturer.

  After clearance of vehicle from the custom, the local agent of the foreign supplier / manufacturer / principal will be completely responsible to get the vehicle (s) registered through Excise Department Government of Sindh and provide Original Registration book / Original Registration Invoice / Tax payment receipt / other related documents & provide the vehicle (s) number plate (s) to SSGC. Registration fee will be reimbursed by SSGC subject to submission of Government of Sindh Excise Department receipt.
  - 12.2 The bidder / supplier shall quote only those vehicle (s) / which fully comply to Pakistani environment and can operate in Pakistan. The bidder should ensure that vehicle (s) consumable i.e (fuel/oil & lubricant/spares) are easily available in Pakistan.



Annexure - A

#### On Non Judicial Stamp Paper of Rs. 50/- (Fifty) Per 100,000 Format of Bid Bond Guarantee

BANK GUARANTEE NO				
DATE OF ISSUE				
DATE OF EXPIRY		•	•	
AMOUNT	,			,

Sui Southern gas Company Limited, ST. 4/B, Block-14, Fulshan-e-Iqbal, Sir Shah Suleman Road, Carachi.

Dear Sirs.

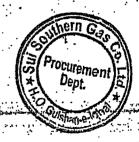
Bid Bond Bank Guarantee

- To accept written intimation (s) from you as conclusive and sufficient evidence of the existence of a default of non-compliance as aforesaid on the part of Bidder and to make payment account to within 03 days of the receipt of the written intimation.
- No grant of time or other indulgence to, or composition or arrangement with the Edds in respect of the aforesaid Bid with or without notice to us shall in any manner, discharge or otherwise, how wer effect this Guarantee and our liabilities & commitments hereunder:
- This Guarantee shall be binding on us and our successors in interest and shall be irrevocable.

ours faithfully,

stamp and signature of the issuing bank)

and the state of t



SSGC

Annexure - B

#### On Non Judicial Stamp Paper of Rs. 50/- (Fifty) Per 100,000 Format of Performance Bond Guarantee

BANK GUARANTEE NO	
DATE OF ISSUE	
DATE OF EXPIRY	
AMOUNT.	

Sui Southern gas Company Limited, ST. 4/B, Block-1 Gulshan-e-Iqbal, Sir Shah Suleman Karachi.

Dear Sirs.

ou in Karachi under the Purchase

In consideration of your having placed Purchase Order No.. dated: On M/s... ... called Supplier and in consideration for value, received from Supplie hereby agree and undertake as under:

- To make unconditional payments to you 1. . mentioned in the said Purchase Order, on your wanter demand(s) without further resource, question or reference to Supplier or any other person, in the even of default or non-performance and / or non-fulfillment by Supplier of his obligations liabilities & even on ibilities under and in pursuance of the said Pfirchase Order of which you shall be the sole judge.
- 2. To accept written intimation from you as conclusive and sufficient. ence of the existence of a default or breach as aforesaid on the part of Supplier and to make paymer accordingly within 3 (three) days of receipt thereof.
- To keep this guarantee in full force from the date hereof as specified in 3. ral or Special terms & conditions.
- That on grant of time or other indulgence to amendment in the terms of the purchase ordal by agreement with Supplier in respect of the Performance of his obligations under and in pursuance the said Purchase Order with or without notice to us, shall in any manner discharge or otherwise, however, affect this Guarantee and our liabilities and commitments there under.
- This Guarantee shall be binding on us and our successors in interest and shall be irrecoverable. 5.
- This Guarantee shall not be affected by any change in the constitution of the Guarantor Bank or the 6. constitution of M/s .....the Supplier.

Yours faithfully,

(stamp and signature of the issuing bank)



Annexure - C

(Format of Declaration)

General Manager (Procurement)
Sui Southern gas Company Limited,
ST. 4/B, Block-14, Gulshan-e-Iqbal,
Sir Shah Suleman Road, Karachi.
Dear Sir.

Declaration

(the Seller/Supplier) hereby declares its intention not to obtain or induce the procurement of any contract, right, interest, privilege or other obligation or benefit from Sui Southern Gas Company Limited or any administrative subdivision or agency thereof of any other entity owned or controlled by it (SSGC) though any corrupt business practice.

Without limiting the generally of the foregoing, (the Seller/Supplier) represents and warrants that it has fully declared the brokerage, column situ fees etc. paid or payable to anyone and not given or agreed to give and shall not to give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate opent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratice tion bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or in lucing the procurement of a contract, right, interest, privilege or other obligation of benefit in whatsoever form that MGC, except that which has been expressly declared pursuant hereto.

(The Seller/Supplier) certifies that it has make and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transperson with SSGC and has not taken any action or will not take any action in circumvent the above declaration, representation or warranty.

(The Seller/Supplier) accepts full responsibility and strict rate for making any false declaration, not making full disclosure, misrepresenting facts of taking any action likely and frost the purpose of this declaration, representation any warranty. It agrees that any contract, right interest, privilege or their obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remember a allable to SSGC under any law, contract or other instrument, be voidable at the option of SSGC.

Notwithstanding any rights and remedies exercised by SSGC in this regard, (TAS ller/Supplier) agree to indemnify SSGC for any loss or damage incurred by it on account of its corrupt busy as practices and further pay compensation to SSGC in an amount equivalent to ten times the sum of any complission, gratification, bribe, finder's fee or kickback given by (The Seller/Supplier) as aforesaid for the purpose of the bataning or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in what some form from SSGC.

Yours faithfully,

Signature & Stamp (The seller/supplier) Note:

- 1. The above declaration is required to be submitted by the Successful Bidder after issuance of Purchase Order (PO) or Letter of Intent (LOI) on Bidder's letter head, for purchase order / letter of intent of a total value of Rs. 10,000,000/- (Ten million) or above.
- 2. Please note that submitting the declaration is a mandatory requirement.



## Special Conditions of Tender Document

Note: In case of any conflict between Special Conditions of Tender Document and any other terms & conditions, the Special Conditions of Tender Document will govern / prevail.

Warranty / Guarantee Coverage

- The successful bidder / supplier guarantee that the goods supplied against above tender enquiry are in all respect in i) accordance with the tender specifications & Purchase Order and that material used are in accordance with the latest approved standards and are of good workmanship / quality. Any item or part of item if found to be substandard or not meeting the specified criteria as per pre-shipment / post shipment inspection report, than in such as event the Supplier /Bidder hereby warrants and undertake to replace the same on Duty Delivery Paid (DDP) basis (INCOTERMS 2010) i.e. free of all cost including but not limited to transportation, taxes and levies. In case successful bidder / supplier failure to replace the defective item /remove the defect(s) free of cost within the period specified by the Purchaser, the successful bidder / supplier will refund the relevant cost including all other expenses incurred by the purchaser in this regard.
- ii) The successful bidder / supplier must confirm that the warranty for no-consumable items will remain valid for 18 months and for consumeable items (i.e. Chemical, Battery etc.) will remain valid for 6 Months after the goods have pressfully delivered or commissioned.
- story that the successful bidder / supplier will submit the attached undertaking at Annexure-II, duly filled, iii)
- rmance bank guarantee is not applicable, the supplier shall confirm that all supplied goods under iv) the contract / probase order are new, unused, of most recent or current models and incorporate all recent improvements and otherwise provided in the contract / purchase order. in design and goods
- The Warranty Undertaking being provided by the local agent of the successful bidder (Principal) is required to be submitted at least on Rs 200. Non-judicial Stamp paper and should be duly notarized / attested. In the event when this Warranty Undertaking is being a mitted by the principal who is overseas resident in that case the same would required v) to be notarized by the notary public and duly attested by the Pakistan Embassy or High Commission in that particular jurisdiction. Needless, to mention that in both cases the Warranty Undertaking will be executed by the duly authorized representative of the local agent or the principal, as the case may be.

2.

- Bid bond submission (2%) of the bid s mentioned in the clause 1.1 & 2 of Additional Terms for tender on F.O.B/C&F basis & 9 of General Te as & Conditions, to be treated as null & void, however, other contents of clause 1.1 & 2 of Additional Terms for on F.O.B/C&F basis & 9 of General Terms & Conditions will remain unchanged. The submission of fixed and of Bid security is appearing in the Price Schedule/BoQ.
- All the bidders are advised to number that schedule/BoQ failing which their bid will be rejected schedule/BoQ failing which their bid will be rejected to the currency other that tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency other than tak Rs. Or US \$ their bid bond shall be equivalent after the currency of the curr All the bidders are advised to furnish fixed bi
- Incase the bidder submit bid in the currency other the the conversion to the amount of fixed bid bond given in Pak 3 Dr US\$ as mentioned in Price Schedule/BOQ. The exchange rate (issued by the Treasury Management Group of the National Bank of Pakistan or the State Bank of Pakistan selling rate) prevailing at the time of bid opening dec will be applicable.

  The submission of fixed amount of bid security is also mandatory for the bids valuing Rs.500,000/- or less. The word lowest bidder or the lowest evaluated bid has been substituted to raid as most advantageous bid. Sub-clause 9.2 of the General Terms & Conditions to be treated as numbered, however, other contents

- clause 9 will remain unchanged.
- In case of Single Stage Two Envelope Tenders the fixed bid bond as per clause#09 of Gine at Terms & Conditions and Clause#02 of Additional Terms for tenders on FOR CART. Method For Submission of Bid Bond Under Single Stage Two Envelope Bid 3and Clause# 02 of Additional Terms for tenders on FOB/ C&F basis to be placed in the Technology if the bid bond is placed in the Financial proposal will also be considered. Without submission of bid bond(either in Technical proposal or Financial proposal) the bid will be rejected.

All offers shall remain valid up to 120 days from the date of opening of bids and bid bond shall remain valid for 150

Evaluation Criteria and Comparison of Bids

In accordance with SRO 827 (1) / 2001 bidders tendering for Engineering goods produced in Pakistan and, those Engineering goods specified in CGO-11 and amendments thereof by the Central Board of Revenue or Engineering Development Board. The successful bidder shall be accorded a Price preference in rupees up to a specific percentage (in proportion to the value addition) of the lowest quoted landed cost of an item of foreign origin with similar specifications as mentioned in the tenders



Provided that:-

The saving in foreign exchange is not less than the amount of price preference;

It is ensured that, in each case of such preference, the total import requirements for producing the supplies (a) tendered for locally manufactured items has been duly indicated by the bidders. (b)

Price preference shall be allowed as under:-

- Having minimum of twenty percent value addition through indigenous manufacturing, price preference shall be fifteen percent! Having over twenty percent and up to thirty percent value addition through indigenous manufacturing, price
- preference shall be twenty percent, and
- Having over thirty percent value addition through indigenous manufacturing, price preference shall be twenty five percent.
- For the above purpose, we will require a complete breakdown of ex-factory price for goods manufactured in Pakistan, Any offer not accompanied with this cost breakdown will not be allowed to receive the above price preference. iii)
- Benefit of SRO 827 (1)/2001 shall be accorded to only those local manufacturers who are engaged in the manufacturing of goods specified in CG0 - 11 of 2007 or its latest version or as certified by the EDB. However in case of offer on FOB basis, the landed cost to be determined in accordance with the following criteria be taken for evaluation in case of Infernational bidders, and shall be taken for the purpose of comparison with the price quoted by local manufacturers, who shall also be accorded the price preference in terms of SRO 827 (1)/2001. The landed cost determined in accordance with the afore said criteria shall be taken for bid evaluation in case of international bidders, and shall be taken for the purpose of comparison with the price quoted by the local mapufacturer Example of landed cost for evaluation of the international bidders is given here under:

EXAMI	Cost Comportate or computing landing cost of imported
S. No.	Engineering and interms of S.R.O 827 (1)/2001 in Pak Rupees.
<u>i.</u>	FOB Value.  Sea Freight (Actual quoted by the bidder on the basis of PNSC rates, which shall be announced by the bidder at the
ii.	time of opening of the biss.
	C&F value (i + ii). (CFR value).
iii.	Insurance @ 1% of C&F Value vocat ili above.
iv.	CIF value (iii + iv).
<u>v.</u>	Handling Charges @ 1 % of CIF Vaue given at v above.
<u>vi. ·</u>	
vil.	Import Value (v + vi) for the purposes (v - ving Customs Duty.  Customs Duty at applicable rate, which stall be calculated on the import value given at vii above.
viii.	27 - 17 - 1 3/ - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
ix.	Sales Tax at applicable rate, which shall be calculated in the duty paid valve given at ix above.
х	
xi.	Duty & Sales Tax paid value (ix + x).  Withholding Tax at applicable rate, which shall be exactly and on duty and sales tax paid value given at xi above.
xii.	A A A A A A A A A A A A A A A A A A A
xiii.	The second of th
xiv.	Clearing Charges @ 0.25% of C&F Value given at in above to be taken as nil as it SED at applicable rate, Which shall be calculated on the important given at vii above to be taken as nil as it
XV	1
xvi.	Provincial Infrastructure Cess (at applicable rate) on %age of imp to value given at vii
xvii.	Lypy Whenfore @ Rs 140 per cubic meter or the prevailing rate.
xviii.	The state of the s
xix.	Inland Transportation Charges from Port to Coating Factory (From Port of Manuel In Case of Production Charges from Port of Production Charges from Por
	other than pipes, where coating is not required).
XX.	at the second of the second se
xxi.	VECC. Headling Charges token at Sr. No. vi (Notional Value taken for calculating asserted white for
:	calculating custom duty, sales tax and withholding tax by the customs authority).
xxii.	I I ESS: Sales fax taken at x above: (Adjustable as output tax).
xxiii.	LESS: With Holding Tax. (Adjustable against final assessed tax).
xxiv.	Total deductions (xxi + xxii + xxiii)
xxv.	Net cost of imported engineering goods (xx minus xxiv)

- Foreign bidders are essentially required to submit letter of PNSC for ocean freight transportation rate for break bulk/hedges from their local agent.
- Please indicate approximate shipping specification, i.e. weight and measurements of the packages/bundles and also total gross weight (in terms of metric tons), and total gross volume (in terms of cubic meters) of each consignment separately. vi)
- For evaluation of bids customs duty, taxes and all other charges prevailing on the date of public opening of bids will be used, where applicable.
- For the purpose of price comparison and evaluation of bids, financial charges will also be added to arrive at a landed cost which will inter-alia include, mark up and L/C opening charges etc.



- ix) If the local manufacturer becomes the lowest evaluated bidder after Price Preference, order will be placed at the price (landed Cost) quoted by the lowest evaluated international bidder. In case the local bidder does not accede to the request of SSGCL for best negotiated rates at par with those received from International bidder for particular item(s) then, the order will be placed on the lowest evaluated international bidder.
- x) "Price Preference" shall not be in "Value Terms" it should only be for the sake of reference for comparison purposes (local & foreign bids).
- xi) Bank details shall be mentioned by the bidders for the purpose of opening LC/ Payment.
- 6. Declaration / Integrity Pact / Certification:
  - it is required to be submitted by the Successful Bidder on their letter heads after issuance of Purchase Order (PO) or Letter of intent (LOI) for the value of Rs.10,000,000/- (Ten Million) or above in case of local bidder and US\$ 100,000 & above in case of foreign bidder.
  - Submission the declaration as at ANNEXURE-C is a mandatory requirement for successful bidder.
- 7. Third Party Pre-Shipment Inspection Criteria / Scope of Work as given in the Tender Documents will be followed at the time of Third Party Inspection, which will be carried out by SSGC nominated Third Party Inspection Firm in case the order value exceeds US\$100.000 except screwed pipe fitting tenders.
- 8. "The successful Bidder shall provide the revenue stamps and copy of challan, of value at the rate of twenty Five (25) paisaper every Hundred Rupees or part thereof of the amount of the purchase order, or at the prevailing rate as specified by the Government of Province of Sindh." Further as per Government of Sindh Board of Revenue notification NO.CIS/SWB/BOR/R&T-17/2022-808 dated 08-06-2022 all judicial and non-judicial stamp paper of the denomination of rupee five fundred and above shall be exclusively on e-stamp.
- 9. Bank Guara the (Bid Bond Guarantee/Performance Bank Guarantee) will be made on Non-Judicial stamp paper at the prevailing at the Bid Bond guarantee being prepared by the State Bank's schedule banks should ensure that there should be no deletion/fraction/modification of any terms in the Bid Bond/PBG guarantee format as given in the tender document or use bid will be liable for rejection.
- 10. "Original counter slip of other which is issued with original tender document to be attached on the TOP of envelope at the time of bid submission."
- 11. Cancellation of Purchase Onle
  - In case the supplier fails to deliver the material within the specified delivery schedule as given in Purchase order (P.O.) and maximum upto 120 days after the expired the specified delivery schedule as per Purchase Order, the Purchase Order will be treated automatically as cancelled an applier's sole risk & cost. However, for the sake of clarity liquidated damages (Clause-27 of General Terms Conditions) and be fault by Supplir (Clause-28 of General Terms Conditions) will be treated as given in the General Terms & Conditions of the Inder documents.
- 12. Correct Postal Address

Page 3 of 5

- Bidders are essentially required to provide coorect and least postal, e-mail & web addresses, phone/cell/fax numbers at the time of purchase-of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of purchase of tender documents for effective and limit the time of the ti
- In case the local agent requires to offer bid from more that or principal / Manufacturer, it is mandatory to purchase separate tender document for each principal / Manufacturer, will which the bid submitted with the original tender document will only be accepted and the bid with photocopy of tender document will be rejected.

  \*\*Blacklisting Mechanism of Sympliers and Contractors and their Local Exercises.\*\*
- Blacklisting Mechanism of Suppliers and Contractors and their Lock Agent

  Black listing mechanism is attached separately in the tender documents thick till become an integral part of Tender

  Documents and now be followed / enforced in true letter & sprit and supersule the Black listing terms as mentioned in the General Terms & Conditions.
- 15. The Successful Contractor(s) / Supplier(s) / Consultant(s) shall submit a copy of Professional Sex Certificate with their Invoices / Bills failing which the payment will not be released.
- 16. Authentications of Performs Invoice / Authority Letter and other documents by the Prince of Amnufacturer:

  The Authentication of Authority Letter and Performs Invoice will be obtained from the Prince of Amnufacturer as and when required. If the authentication not received within the stipulated time frame the bid will be in the for rejection and the Bid Bond / Earnest Money will be encashed.
- 17. <u>Bid Bond & PBG (Performance Bank Guarantee) for Proprietary Tenders</u>
  In case of proprietary Tenders, the Bid Bond & Performance Bank Guarantee (PBG) are not required / Applicable.
- 18. Any Bidder who change / amend the BOQ / Price Schedule (description / Bid Form, Quantity, UOM etc.) will render the bid as conditional bid and will be liable for rejection.
- 19. Delivery Schedule will commence after the opening of Letter of Credit (LC). In case the bidder does not submit the performance bond as specified, the delivery time of goods shall be deemed to have commenced 10 days (15 days in case of import) from the issuance of letter of intent / prohase order. The proceeds of the performance bond shall be payable to the Company as compensation for any loss resulting from the supplier's failure to complete its work under the purchase order/contract.
- 20. In the event of release of Performance Bank Gurante (PBG) after its encashment, the amount of the PBG to be released will be converted in Pak Rupees at the exchange rate prevailing at the time of encashment. The amount so

Procurement Dept.

Rev-FP-29 19 Dec 2023 converted will be released in Pak Rupee (PKR) to the foreign bidder or to their local agent duly authorized by the foreign principal.

- SSGC will not pay invoices if they are turned in after 6 months of work completion / material delivered.
- As per FBR Regulations Ref# C.No.4 (24) IT- Budget/2021-142150-R, Dated: 23rd September, 2021 to make the payment online. Therefore, all the local manufacturers are required to provide their only one Bank Account number (IBAN number) on the 'FORM-X' attached duly signed & stamped as one time information, which shall be firm (not changeable) for all the future payment transactions.
- It is mandatory for the bidders to follow all the terms and conditions given in the tender documents without any addition/deletion/amendment and submit the bid accordingly. Therefore, in this context, the bidders are requested not to give their own terms and conditions as it tantamount towards the conditional bid. Otherwise their terms and conditions will not be considered and the Purchase Order / Contract will be awarded based on only as per SSGC tender terms and conditions.
- Payment: 24.

The supplier after delivery of goods and its acceptance shall submit invoice to Finance Department of the Company, containing following information i.e:

	COLIMINAL TOMBANG THEOR STATES		1 4 85 85 4	(a) Yangian walna
1	(a) Purchase order No. & date		uantity (d) Price	(e) Invoice value
			icating delivery date, etc.	
	15 (-) and an address of the	unbenit simed and stamp	acknowledgement slip, Sales	Tax return, Annex "C" &
i	(h) Supplier(s) are required with Annex "I" (whichever applicab	1-) !- which Salas Tay (of	relevant Sales Tax invoice)	s paid.
1	Annex "I" (whichever applican	ie) in which pares ray (or	1 Dictant DE LOS	

Payment will be made within 30 days of completion of stated requirements.

- - dder is bidding as a Joint Venture, the Company will require the joint venture agreement duly the Joint Venture to be submitted with the bid. The joint venture parties shall also furnish an executed by the paties undertaking to be jointly a reverally liable for all liabilities arising out of obligation under the Purchase Order / Contract. The, Joint Venture agreement of the parties must specify share of each partner and name of the lead partner along with their registration with the FP AST and BST as the case may be failure to specify these two narrations the joint venture agreement will not be entertained
- e contractor is expired during the execution of job, it is the responsibility of In case the insurance policy subh 26. the user department to coordinate van the contractor to get it renewed/updated till the period the job is completed/commissioned.
  - time as per tender terms and the insurance policy submitted by the In case the job is not completed within the ch rance policy renewed/updated immediately till the period of the contractor expires, the contractor is liable to get night which the contractor will be responsible for any loss to SSGC. Job is completed / commissioned as per tender terms for new Bidders can quote their rates on both i.e. Price Schedul as v
- ell as Bill of Quantity (BoQ). 27.
- e most advantageous bidder. Company reserve the right to award the Purchase Order 28.
- ment Contracts/Purchase Orders worth of Rs. 50 As per SRO 592(I)/2022 of PPRA Regulations, for Proc 29. million and above, bidders/contractors are required to susmitting Beneficial Owner's Information for Public Procurement Contracts/Purthase Orders (Annexure-I).
- Incase quoted item(s) falls under SRO No. 604 (see attachment) i.e. Solg Per System, PV Module/Cells and allied 30. y stated SRO and to arrange, provide accessories/paris/spares etc. - then in that case supplier is responsible to fully inspection reports, other documents and bear all associated costs for all necessary test reports, certificates, pre-sh one companies as mentioned in etc. (as mentioned in SRO). Further, Pre-Shipment Inspection should be from Appendix H of Import Policy Order (see attachment).
- Fixed Bid Security Alternative Bid
  - A bidder cannot submit two bids/offers with a single fixed bid security/pay orde. However, the alternative bids/offers with separate fixed bid security/pay order can be accepted, falling which the bids will be liable for s an Alternative rejection. In case the bidder quote different make/brands/model that will also be consider bid/offer and require to submit separate BId bond for each make/brand/model.
- Bidder will be blacklisted and henceforth cross debarred for participating in respective category of Public Procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration (which is an integral part of tender document), however, without indulging in corrupt and fraudulent practices, if in breach of obligation(s) under the Bid conditions:
  - a) The bidder have withdrawn or modified their bid during the period of bid validity as specified in the tender



- b) Having been notified of the acceptance of bid by procuring agency during the period of bid validity (i) failure to sign the contract or accept purchase order (ii) fail or refuse to furnish the performance security or to comply with any other condition as mentioned in the tender document.
- 33. The term "Call Deposit Receipt" mentioned in clause # 09 (Bid Bond) of General Terms & Conditions and in clause # 02 (Bid Bond) of Additional Terms for Tenders on F.O.B & C&F basis be treated as null & void.
- 34. Wherever the "Rate Only" is mentioned (either on BOQ or anywhere in tender documents) the same shall only be applicable not exceeding 15% of the original procurement for the same items as given in the BOQ for package basis, in case the requirement is on item wise basis (not package basis) then not exceeding 15% of the original Procurement for the same items (on item wise basis) as given in the BOQ.
- 35. Lots: In case when the tender is floated on LOT basis, following clauses to be applied:
  - a) The bidder(s) are essentially / mandatorily required to submit fixed bid bond as mentioned in the bid form/BOQ/Invitation to Bid. Separate fixed bid bond to be submitted against each individual LOT and its validity to be 150 days at the time of opening of technical proposal.
  - b) Evaluation for each LOT will be carried out separately. Each LOT will be awarded separately.
- 36. For open competitive bidding if the most advantageous bidder is new local manufacturer, 10% trial order will be placed and maining 90% order will be awarded to the next most advantageous bidder at their own quoted rates.
- 37. Subsequent to the issuance of Purchase Order/LOI, successful bidder has to submit 10% Performance Bank Guarantee of the Purchase Order/LOI value unless & untill specified in the Tender Documents. Clause# 16.1.5 mehtioned in Guarantee Conditions to be treated as null & void.
- 38. Where the Pre-shipment is spection is applicable and incase of partial shipment is required by the bidder the cost of the 1<sup>st</sup> Pre-shipment inspection will be borne by SSGC, whereas, cost of the 3<sup>rd</sup> Party inspection for the remaining shipment(s) will be borne by the bidder/manufacturer.
- 39. Purchase order value mentioned the clause # 6 of sub-clause # 6.1 (Performance Bond) of Additional Terms for Tenders on FOB/C&F basis (Lectional A) to be read as US \$ 10,000 instead of US \$ 25000. However, other contents of clause & sub-clauses of the programmer Bond) of Additional Terms for tender on F.O.B/C&F basis will remain unchanged.
- 40. Redressal of Grievances And Settlement of Disputes
  - Any bidder feeling aggrieved by any attantive procuring agency after the submission of his bid may, lodge a written complaint concerning his given reporting agency after the submission of his bid may, lodge a written complaint concerning his given reporting agency after the submission of his bid may, lodge a written complaint concerning his given report and five days after issuance of the realization report.
  - In case, the complaint is filed against the technia evaluation report, the GRC shall suspend the procurement proceedings.
  - In case, the complaint is filed after the issuance of final evaluation report, the complainant cannot raise any objection on technical evaluation of the report. Provider that the complainant may raise the objection on any part of the final evaluation report in case where angle stage single envelope bidding procedue is adopted.
- 41. The sub clauses 33.2, 33.4 & 33.5 of clause 33 of General Terms & Conditions to be read as null & void.



Declaration of Ultimate Beneficial Owners Information for Public Name - 17 11

- Father's Name/Spouse's Name
- CNIC / NICOP/Passport No.
- Nationality
- Residential address
- address
- ch shareholding, control or Interest acquired in the business.
- in case of inclusive shareholding, control or interest being exercised through intermediary companies senting or other legal persons or legal arrangements in the chain of ownership or control, following additional particulars to be provided:

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information about the Board of Directors (details shall be provided regarding number of shares in the capital of the company as set opposite respective names).



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ANNEXURE - TI

CONTRACTOR AND AND AND ASSESSMENT OF STREET

10

#### WARRANTY UNDERTAKING

M/s. Sui Southern Gas Co. Ltd. SSGC House, Sir Skan Silleman Road, Gulshan-E-lqbal, Karajan.

From\_\_\_\_\_\_\_\_ (FIRM NAME)
Tender Enquiry No.\_\_\_\_\_\_\_ Date\_\_\_\_\_

- 1. In case we stands as the lowest bidde and the order is placed on us against the cited tender enquiry, we hereby guarantee that the goods supplied against above tender enquiry are in all respect in accordance with the tender specifications are that material used are in accordance with the latest approved standards and are of good workmarship quality. Any item or part of item if found to be substandard or not meeting the specified criteria are per pre-shipment / post shipment inspection is report, than in such as event the Supplier hereby varrants and undertake to replace the same on DDP basis (INCOTERMS 2010) i.e. free of all cost including but not limited to transportation, taxes and levies.
- 2.—In case of our failure to replace the defective item /remove the defect(s) free of cost within the period specified by the Furchaser, we will refund the relevant of the cluding all other expenses incurred by the purchaser in this regard.
- 3. This warranty will remain valid for 18 months after the goods have been accommissioned.

Signature \_\_\_\_\_\_
Campany Stamp



# Form of Bid-Securing Declaration

[The Bidder shall fill in this Form in accordance with the instructions indicated.]

Date [date (as day, month and year)]

No.: [mumber of Birdding process]

Alternative No.: [insert identification No if this is a Bird for an alternative]

To: [complete narise of Procuring Agency]

We, indersigned, declare that

We used stated that, according to your conditions, Bids must be supported by a Bid-Securing beaution.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective trategory white procurement proceedings for a period of (not more than) six months, if I all it abdit with a bid securing declaration however without indulging in conjust and fraudulest tractices, if we are in breach of our obligation(s) under the Bid-conditions, because we

- (a) have withdrawn our barriers the period of Bid validity specified in the Leffer of Bid; or
- (b). having been notified of the according of our Bid by the Procuring Agency activing the period of Bid validity. Or refuse to sign the Confract or iii) tail to or refuse to furnish the Periormanic decrease (or guarantee) if required, in accordance with the ITB.

We understand this Bid Securing Declaration shall for a if we are not the successful bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expire in Aour Bid.

Name of the Bidder

Name of the person stuly authorized to sign the Bid on behalf of the lie

Title of the person signing the Bid

Signature of the person named above

Date signed

- In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder
- Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]



	Supplier code:
FORM-X	
Bank account details form for a	<u>ll Beneficiaries</u>
(Mandatory requirement for Digital	Online Banking)
As per FBR Regulations ref # C.No.4 (24) IT-Budget/2021-142 payment online w.e.f. 01-11-2021. All beneficiaries are require mandatory:	•
Name of Firm:	_
Address of Firm:	_ _
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NTN#:	_
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Bank A/C Title name:	<del></del>
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Note: Please be attached copy of Cheque / Account Mainten	nance Certificate (Mandatory)
	Authorized Sign & Stamp
Date:	- ,
Note: All payments transactions will be made on above men one time information to be provided by the all beneficiaries submitted, please tick the box above "Information already s duly signed & stamped.	Incase if the above detail has already

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# SUI SOUTHERN GAS COMPANY LIMITED PROCUREMENT DEPARTMENT

# **BLACKLISTING MECHANISM** (REVISION-1)

#### 1 BACKGROUND

In pursuance of Rule-19 of Public Procurement Rules, 2004 read with Rule-2(f) (fa) and the criteria for Blacklisting of Suppliers and Contractors / Consultants doing business with the SSGCs is reiterated hereafter to eliminate unfair trade practices.

#### 2 SCOPE

The procedure shall be applicable and remain in force, along with any amendments thereto, within Sui Southern as Company Limited ("SSGC") until any clear instructions or guidelines are impacted by the Gove ment through Public Procurement Regulation Authority (PPRA), Pakistan Engineering or any other competent forum. The procedure shall also be applicable on the pre-Council (PFC), The procedure shall be applicable on any "Person(s) / Firm(s)", which for the purposes qualified firm of this Mechanism shall inter alia include suppliers, bidders, contractors, consultants, firms, individuals, and orge transacting business with SSGC. Wherever any provision of this Mechanism shall be in continut with provisions of any applicable guidelines of donor agencies, or any other applicable Statute for Rule enforced at the time in Pakistan, the provisions of such or Rule enforced at the time in Pakistan, the provisions of such applicable guidelines, laws, of sales shall prevail. This SOP shall become a part of the future Bidding Documents.

#### 3 **DEFINITION OF TERMS**

- 3.1 "Appellate Authority" Authority to Appeal against issuance of Blacklisting Order.
  3.2 "Appeal" Right of firm/individual to be protest against the issuance of Blacklisting Order. bege protest against the issuance of Blacklisting Order.
- 3.3 "Procuring Agency" Any department/division/factory/project exercising general and/or administrative control over the unit.
- 3.4 "Blacklisting Order" An administrative penalty squalifying a firm/individual from participating in procurement for a given period.
- 3.5 "Suspension" The administrative penalty imposed for actions committed during the competitive bidding stage, whereby such firms/individual to prohibited from further participation in the bidding process of Procuring Agency.
- 3.6 "Contract Implementation" A process of undertaking a project or contract in accordance with the contract documents.
- 3.7 "Termination of Contract" Extinction of contract by reason or resolution or rescission under applicable rules/regulations/laws arising from the default of the firms/individuals.
- 3.8 "Delist" Removal of supplier/contractor from blacklisting.
- 3.9 "PA-Project Authority -" A three-member committee comprising of User, HSE&QA & Procurement Deptt. to address the issue.
- RPC-SSG's Rights Protection Committee To examine the justification of PC.

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#### REASONS FOR BLACKLISTING 4.

- The following shall comprise the broad multilateral guidelines for blacklisting: 4.1
  - 4.1. I "Corrupt Practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution:
  - 4.1.2 "Fraudulent Practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
  - 4.1.3 "Collusive Practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the Purchaser, designed to establish bid price at artificial, non-competitive levels, and
  - 4.1.4 "Coercive Practice" means harming or threatening to harm, directly or indirectly, Person(s) / Firm(s) or their property to influence their participation in the procurement process or affect the execution of a contract.
- In addition to above, blacklisting of firms/individuals may be resorted to when the charges are of serious nature, which include but are not limited to the following:

#### 4.2. 1 Competitive Bidding Stage

the competitive bidding stage, the Procuring Agency shall impose on bidders or we bidders the penalty of Suspension from participating in the public bidding process, without prejudice to the imposition of additional administrative sanctions as the s of the agency may provide and/or further criminal prosecution. as provided is, for violations committed which include but are not limited to the by applicable la following:

- Submission of exhibity requirements containing false information or falsified i. documents.
- ontain false information or falsified documents, or the Submission of bid ii. concealment of such after tion in the bids in order to influence the outcome of eligibility screening or as y or ler stage of the public bidding.
- iii.
- Submission of unauthorized of the documents for pre-qualification/ tendering i.e. without specific authorization for the principals/ manufacturers etc.

  Failure of the firm to provide an aemic Warranty Undertaking and Performa Invoice of the manufacturers / Principals/ Trading house. iv.
- v. Failure of the firm to submit specific au o ty letter of the Original Equipment Manufacturer (OEM) for participation in a pa acular tender;
- vi. Unauthorized use of one's name, or using the same of the name of another for purpose of public bidding.
- notions of the purchase vii. Deviations from specifications and terms order/contract.
- enter into contract with the government without justifiable on e, after he had been adjudged as having submitted the I viii. Withdrawal of a bid, or refusal to accept an award or refusal adjudged as having submitted the Lowest Calculated Respons Bid or Highest Rated Responsive Bid.
- ix. Refusal or failure to post the required performance security within the prescribed
- X. Refusal to clarify or validate in writing its Bid during post qualification within a period of seven (7) working days, or as may be specifically prescribed, from receipt of the request for clarification.

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- xi. Any documented unsolicited attempt by a bidder to unduly influence the outcome of the bidding in his favor.
- xii. Any attempt to give illegal gratification to any representative of the purchaser to influence the process of procurement.

In addition to the penalty of suspension, the bid security posted by the concerned bidder or prospective bidder could also be forfeited / encashed.

#### 4.2.2 Purchase Order / Contract Implementation Stage

During the Purchase Order / Contract implementation stage, the procuring entity shall impose on contractors after the termination of the contract the penalty of suspension from participating in the public bidding process, without prejudice to the imposition of additional administrative sanctions as the internal rules of the agency may provide and/or further criminal prosecution, as provided by applicable laws, for violations committed which include but are not limited to the following:

- i. Failure of the contractor, due solely to his fault or negligence, to mobilize and start work or performance within the specified period in the Letter to Proceed.
  - Failure by the contractor to fully and faithfully comply with its contractual obligations without valid cause, or failure by the contractor to comply with any written lawful instruction of the Procuring Agency or its representative(s) pursuant to the implementation of the contract. For the procurement of infrastructure projects or consultance contracts, lawful instructions include but are not limited to the following:
  - a. Exployment of competent technical Person(s) / Firm(s)nel, competent engineers and/c wo k supervisors;
  - b. Provision or arning signs and barricades in accordance with approved plans and specifications and contract provisions;
    c. Stockpiling in argier places of all materials and removal from the project site of
  - c. Stockpiling in a refer places of all materials and removal from the project site of waste and excess raterials, including broken pavement and excavated debris in accordance with approved plans and specifications and contract provisions;
  - d. Deployment of committee uipment, facilities, support staff and manpower; and
  - e. Renewal of the effective, dates of the performance security after its expiration during the course of contract in dementation.
  - f. Non-Performance of the supplied respect of tender terms & conditions and the delivery / supply of material.
  - iii. Assignment and subcontracting of the contract of any part thereof or substitution of key Person(s) / Firm(s)nel named in the proposa without prior written approval by the Procuring Agency.
  - iv. For the procurement of goods, unsatisfactory progres, in an delivery of the goods by the manufacturer, supplier or distributor arising from his fact or negligence and/or unsatisfactory or inferior quality of goods, as may be provided in the contract.
  - v. For the procurement of consulting services, poor performance by the consultant of his services arising from his fault or negligence, any of the following act by the consultant shall be construed as poor performance:
    - a. Defective design resulting in substantial corrective works in design and/or construction;
    - b. Failure to deliver critical outputs due to. consultant's fault or negligence;
    - c. Specifying materials which are inappropriate, substandard or way above acceptable standards;

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- d. Allowing defective workmanship or works by the contractor being supervised by the consultant; and
- e. Submitting CV's of key Person(s) / Firm(s)nel in the prequalifying process or bid documents of professionals that are not in actual employment of the bidder.
- VI. For the procurement of infrastructure projects, poor performance by the contractor or unsatisfactory quality and/or progress of works arising from his fault or negligence.
- vii. Willful or deliberate abandonment or non-performance of the project or contract by the contractor resulting to substantial breach thereof without lawful and/or just cause.

In addition to the penalty of suspension, the performance security posted by the contractor could also be forfeited.

- 4.2.3 In addition to above, other grounds for blacklisting of firms/individuals include but are not limited to the following:
  - i. Objecting fraudulent payments;
  - ii. Obvious contracts by misleading the purchaser:
  - iii. Refus I to bay SSGC dues etc.;
  - iv. Failure to fulful contractual obligations;
  - v. Changes in the status of firm's ownership/partnership etc. causing dissolution of the firm which existed a the time of inspection / bidding prior to original registration of the firm;
  - vi. Registration of a firm with a new name by the Proprietor or family or a nominee thereof of a firm that has been an explacklisted;
- vii. Consequential operational damages caused to SSGC equipment or infrastructure as a result of equipment or parts there as pplied on trial basis or due to failure of such equipment;
- viii. Contractors who have negociate. Plea Bargain under the National Accountability Ordinance 1999, or contractors involved with any other criminal proceedings conducted by any investigation agency where default in them proved specifically in relation to supplies made to or contracts concluded with SSG.
- ix. Involved in litigation or needless petition in influence or obstruct the procurement process either on his own behalf or at the behest of a pother vested interest;
- x. A firm may be disqualified for a period extend tole to two years in case a decision by a court is awarded against the said firm after litigation, it whose the firm is involved in litigation at least three times during two financial years, or where a firm has on account of litigation caused substantial financial losses to SSGC:
- xi. Blacklisted by other Federal and Provincial Government Amiguies / Divisions / Departments and organizations / autonomous bodies subordinate thereto; and
- xii. Blacklisting in case of Joint Venture firms will also result in concerned Joint Ventures Partners.

## 5. SYSTEM OF PENALTIES

For the purpose of uniformity, following system of penalties shall be adopted for procurement of goods, works and services:

5.1 Blacklisted and henceforth cross debarred for participation in any public procurement or disposal proceedings for the period of not more than ten years, if corrupt and fraudulent

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- practice as defined in these rules is established against the bidder or the bidders in pursuance of blacklisting proceedings;
- 5.2 blacklisted and henceforth cross debarred for participation in respective category of public procurement or disposal proceedings for a period of not more than three years, if the bidder fails to perform his contractual obligations during the execution of contract or breaches the contract due to his capacity and capability to perform or otherwise. However, procuring agency shall initiate such blacklisting or debarment proceedings after exhausting the forum of arbitration, provided that such provision exists in the conditions of contract, and if such failure or breach is covered in the respective dispute settlement clauses of the contract, and
- 5.3 blacklisted and henceforth cross debarred for participation in respective category of public procurement or disposal proceedings for a period of not more than six months, if the bidder fails to abide with a bid securing declaration, however without being indulged in any corrupt and fraudulent practice.

#### 6. SUSPENSION AND BLACKLISTING PROCEDURE

- 1. The supplier or contractor who is to be blacklisted for a specified period is given adequate of port laity of being heard.
- 2. The supplier or contractor who is to be blacklisted for a specified period is called for meeting by providing adequate time, so as to given him adequate opportunity of being heard before takin any action.
- 3. In case the supplier or contractor does not attend the meeting on the given date and time a final notice is served to be n / her to attend the meeting on the revised date and time. Despite the final notice, if the supplier or contractor does not attend the meeting as per schedule, automatically be considered at fault. Action will be taken as per below clauses 5 to 9.
- 4. A three-member committee will form, imprising of User, Procurement and HSE&QA departments to address the issues in the preting with the supplier or contractor. Members of committee may not below of grade IV.
- 5. In case the supplier or contractor is found at describ based on the fact of the case as well as the tender terms and conditions, and do not astiff the grounds of his default as per the tender terms and conditions, the approval is the from the management for their temporary or permeant blacklisting along with encast meet of bid bond or PBG as the case may be.
- 6. The decision of the management is communicated to the thand supplier or contractor through a formal letter.
- 7. A copy of the letter of the defaulted supplier / contractor along with covering letter with pertinent documents is / also forwarded to the Authority (PPRA) for uploading on PPRA website.
- 8. The blacklisting information of the supplier / contractor is uploaded on the websites.

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- 9. Any bidder not satisfied with the decision of the procuring agency, may lodge an appeal in the relevant court of jurisdiction.
- 10. After coming into force the procurement contracts, the dispute between the parties to the contract shall be settled by arbitration.

# 7. STATUS OF BLACKLISTED FIRM/INDIVIDUAL

Blacklisting of a firm/individual will not affect other ongoing contracts/works/supply orders. However, such blacklisted firm shall stand barred from all future tender processes/participation and Standing Security, if any, could be confiscated until recovery of financial damages ascertained by the authority while issuing Blacklisting Order.

# 8. DELISTING

A temporary blacklisted firm / individual shall be automatically restored after the period for the penalty has elapsed, unless the procuring agency wants to maintain the blacklisted status of firm / individual the to justifiable reasons with the prior approval of Appellate Authority. In the latter case, the temporary blacklisted firm / individual shall be restored.

### 9. AMENDMENT

- 9.1 In the implementance of Blacklisting Mechanism, the modifications may be introduced thereto through the mediatent of its specific provisions as the need arises.
- 9.2 Any amendment to this P acklining Mechanism shall be applicable to tenders advertised for bid after the effectivity of the said amendment.

# 10. EFFECTIVITY

The Blacklisting Mechanism or any amendments hereof shall take effect immediately and from the date of its issuance. All future tender documents must be governed by these instructions. However, these cannot override the provisions of Putage Regurement Rules, 2004.

# 11. The Steps to be Followed are As Under

The causes and reasons to be taken into consideration for Debarment / Karkitting of any Person(s) / Firm(s) are given as under:

#### 1. PRE-AWARD STAGE:

The following shall be considered, inter alia, the events / reasons for initiating proceedings under this Mechanism at the Pre-Award Stage:

- i Indulging in Corrupt: Fraudulent as well as Collusive practices.
- Submission of false and spurious documents, making false statements, making frivolous complaints and allegations to gain undue advantage,

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- iii Commission of embezzlement, criminal breach of trust, theft, cheating, forgery, bribery, falsification or destruction of records, receiving stolen property, false use of trademark, securing fraudulent registration, giving false evidence, furnishing of false information of serious nature.
- Submission of false bid security or infringement of documents to get undue monetary or any other benefit.
- v Breach of confidentiality of evaluation process based on illegal access or in any way to get undue benefit or to provide benefit or to frustrate the bidding/evaluation process. This will also include attempts to sabotage the bidding process directly or indirectly.

#### 2. POST- AWARD STAGE:

The following shall be considered, interalia, the events / reasons for initiating proceedings under this Mechanism at the Post-Award Stage:-

- i. Its reardinary delay in signing or refusal to accept the Notification of Award and/or the court is without any cogent reason.
- ii. Misconduct, i.e., failure to proceed with the signed contract, withdrawal of commitments, quoting an unreasonably and unfairly low financial offer and subsequently withdrawing such an offer, my tating the evaluation/bidding process and not responding to written communication in a passonable time.
- iii. Causes mentioned in Sab-Clauses i, ii and iii above.
- iv. Submission of fake / frivolous or putilated Performance Guarantee or Advance Payment Guarantee etc.
- v. Non-satisfactory performance during the execution of the contract / purchase order.
- vi. Non-performance or Breach of provision chases of the contract agreements/tender, terms.
- vii. Notwithstanding the warranty/defect liability period, any defect in a product, equipment, plant, facility or services rendered that may subseque by arface during field operations within 5 years of its commissioning.
- viii. Failure to honour obligations within warranty period or defect havilty period as defined in the contract.

#### 3. OTHER CAUSES:

- i. The Person(s) / Firm(s) is blacklisted by any Government department in Pakistan, or it is established that the firm is involved in any kind of corruption or corrupt practices anywhere in the world.
- ii. Violations of provisions / instructions set down in the Bidding Documents.

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- iii. Any attempt / activity to malign or bring SSGC into disrepute and harm its interest(s).
- iv. Person(s) / Firm(s)(s) blacklisted by International Financial Institutions (donor agencies) will be liable to be blacklisted after receipt of confirmation from the donor agencies without any further proceeding.
- v. Any other cause deemed just and appropriate by CPPA in the given circumstances.
- Note: (1) If above mentioned causes occur either on part of the principal bidder or the local agent, both shall be considered for blacklisting / debarment.
  - (2) The authorization of the foreign bidder to local agent shall contain his complete particulars including the name of the company, name of the owner, National Tax number (NTN), CNIC (Computerized National Identity Card) No. etc. In case, the said information is found to be missing, even after calling for the same within a reasonable time, the authority letter shall not be accepted.
  - (3) The Bidding Documents shall be issued against original authority letter or in case of scanned copy the email of the foreign bidder shall be enclosed. However, at the time of bidding, the origin that be prize that the standard with the bid. In the absence of the same, the bid shall be rejected.
  - 4. FORMULATION of SCGC's Rights Protection Committee: A permanent Committee namely "SSGC's Rights Protection Committee (RPC or Committee)" shall examine the justification of the reasons given by the Project Authority prior to blacklisting. Member of RPC must be one grade up from the members (AA).

# 5. PROCEDURE FOR BLACKLY ING

Upon receipt of or obtaining information and/or knowledge that any Person(s) / Firm(s)(s) is involved in practices mentioned in helemp ove under the heading of Pre-Award Stage; Post-Award Stage and Other Causes, the converted Project Authority / formation shall promptly formulate its recommendations and submit through the Managing Director, SSGC to SSGC's RPC / Committee along with its findings, details of charges and documentary evidences to initiate proceedings under this Mechanism.

#### 6. INITIATION OF AN ACTION

- (i) Within a period of 15 days after receiving the recommandations of Blacklisting / Debarment from the concerned Project Authority, the Converge of the Committee shall issue a Show Cause Notice ("Notice") thereby informing the Person(s) / Firm(s) about the alleged charges and shall provide an opportunity to the defend sair charges within a time period of 15 (fifteen) days.
- (ii) The Person(s) / Firm(s)(s) shall be accorded adequate opportunity of her fing in order to defend the charges within the given timelines.
- (iii) The Notice to the Person(s) / Firm(s) shall be sent at the mailing/postal address as provided under the Contract or any other address provided by way of subsequent written communication by the Person(s) / Firm(s) The non-receipt of the Notice due to incorrect / change in mailing address without any written communication shall not be attributable to

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SSGC. In case of non-receipt of any reply from the accused Person(s) / Firm(s) within the formulated time, but not less than the time given in (i) above, the Committee shall have the right to proceed on Ex-parte basis.

#### 7. DECISION

The committee shall hold an independent inquiry/investigation as the case may be, and, which may include site visits and interviews with the parties concerned. The Committee shall complete the entire inquiry/investigation, preferably within a period of 30 days after receipt of response from the Person(s) / Firm(s) against whom proceedings under this Mechanism has been initiated and shall present the report to the Managing Director, SSGC. If required, the Committee may report the case to an appropriate law enforcement agency depending upon the nature of the case for detailed investigations with the prior approval of Managing Director, SSGC. iii. The Person(s) / Firm(s) against whom proceedings have been initiated under this Mechanism shall not proceed for arbitration/litigation during the proceedings for blacklisting.

### 8. COMMUNICATION OF DECISION

After recommodation for temporary & permanent blacklisting by "SSGC's Rights Protection Committee (Pr. C.), the Person(s) / Firm(s) concerned shall be informed within 10 days of such decision. The decision of the Committee will be notified on SSGC 's and PPRA's websites and shall also be conveyed to Pakistan Engineering Council.

The temporary Black string on the grounds and reasons specified herein above shall be for a reasonable specified period to the same and as a general rule of prudence, the period may not exceed three years, except in cases where debarment/blacklisting has been done by any other government department or an international Financial Institution (Donor Agency). In case the Person(s) / Firm(s) has been blacklisted by the government department or the International Financial

Institution (donor agency), the period of temporary blacklisting/debarment shall be for a maximum period of 3 years or the time se of for which the concerned government department/International Financial Institution (1) and Agency) debarred the contractor (whichever is higher). However the permanent blacklibing cannot be revived.

Action after the Person(s) / Firm(s) are placed on Blacklisting ast

- i. The decision of blacklisting will be immediately circulated to concerned as mentioned herein above under the heading Communication of Decision.
- ii. In case of a contract already awarded to a Person(s) / Firm(s) which has been blacklisted and termination is either not possible or not feasible, the concerned Project Authority may proceed in this case to complete the contract with the approval of Competent Authority. (iii) The blacklisted Person(s) / Firm(s) shall stand disqualified from bidding from the cate of decision against them. Any pending bids shall also stand rejected. If a contract has already been awarded to Person(s) / Firm(s), it shall be voidable at the option of SSGC. (iv) A separate register or data base will be maintained for blacklisted firms indicating reasons and period.

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# 9. Effectiveness

This Mechanism or any amendments thereof shall take effect immediately with the approval from Managing Director of Sui Southern Gas Company Limited.

NOT TOR BIDDING BURBOSK

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### PROCUREMENT OF BARE & 3LPE COATED LINE PIPE, Sizes: (16" x 0.375" WT), (18" x 0.406" WT) & (20" x 0.438" WT), API 5L, Grade X60 (PSL-2)

#### TENDER ENQUIRY NO.SSGC/FP/PT/13639

#### **Special Terms & Conditions**

In case of any conflict between the terms specified below and elsewhere (tender documents), the terms given hereunder will supersede:

- Sui Southern Gas Company Limited, herein after referred to as the Company (purchaser) registered in Pakistan intends to procure subject goods on FOR, FOB/C&F basis from local and foreign manufacturers / bidders (having valid API accreditation), as specified in the tender documents. The procurement will be financed from the Company's own
- Complete set of Tender Documents may be collected on submission of a written application to the General Manager (Procurement), Sui Southern Gas Company Limited (Address: SSGC House, Sir Shah Suleiman Road, Gulshan-e-Iqbal, P.O.Box No.17989, Karachi-75300 Phone No.99021024 Fax No.92-021-99231583 (www.ssgc.com.pk.) and upon payment of Rs.2,000/- (Rupees One Thousand) by pay order/bank draft, drawn on a commercial bank operating in Karachi..
  - 2.1 d Bond as mentioned in the price schedule shall be enclosed with technical proposal, however fixed bid osed with financial bid is also acceptable. Further, if fixed bid bond not found either in technical inancial proposal the bid will be rejected. The Bid Bond shall remain valid for 150 Days.
  - abhits bids on behalf of different manufacturers/coating applicators, a separate bid bond for each individual bid required or else bid will be liable for rejection. Likewise for tender when bidder submit alternative bids a separate bid bond for each individual bid is required or else bid will be liable for rejection.

    Please note that in case if the bid bond validity fall short of 150 days due to extension in bid submission date, the bidders

are liable to extend the bid bo a validity upto 150 days within 30 days of the opening of technical proposals.

- 3. The Bidder is expected to examine tructions, forms, terms and specifications in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or submission of Bid not substantially responsive to the Bidding Documents in all respect will be to for rejection of Bid
- Documents Comprising the Bid

The Bid prepared by the Bidder shall comprise ng components

- ➤ Bid Form / Price Schedule duly filled, signed and
- Documentary evidence that the Bidder is qualified to the contract if its bid is accepted.
- ➤ Bid Security furnished as per clause # 12 or Annexure ♥ ender documents.
- 5. The Bidder shall complete and submit one original and one cop on the Bid Form and the appropriate Price Schedule furnished in the Bidding Documents. The bidder is also required to subp he complete set of tender documents duly signed with stamp & date on each page mandatory along with the bid.
- Bid Validity:

All offers shall remain valid up to 120 days from the date of opening of bid. All of irement of Clause 7 of General Conditions (Section - 1) shall remain un-changed.

- 7. Bid Prices
  - a. The Bidder shall complete the Price Schedule included herein, stating the unit prices, to item and total bid amount) of the Goods to be supplied under the Contract.
  - b. Prices quoted in the Price Schedule should be entered separately in the following manners:-

For Goods to be offered from Outside the Purchaser's Country.

SSGC is a public sector Organization and as per directive of the Government of Pakistan, shipment of imported material be only through PNSC Vessel, hence commercial evaluation will be carried out on the basis of freight of PNSC (obtained by the bidder) only.

- a. the price of the Goods, quoted FOB port of shipment and
- b. the price of the Goods, quoted C&F Karachi (freight of PNSC) in the Purchaser's Country.
- c. The breakdown of prices on FOB should be furnished at (Annexure-E).

Note: Sea freight (Actual quoted by the bidder on the basis of PNSC rates) for ocean freight transportation rate for break bulk / hedges would be announced at the time of opening of Commercial Proposal.



Break down of prices (quoted in the Price Schedules) by local manufacturer shall be mandatory and be given separately in the following manners:-

- The price of the goods quoted ex-factory, loading, lashing and transportation charges from Factory to SSGC designated Site/Coating Factory/Dumps. Quoted price should include all local other taxes except GST.
- Local value addition (in Rupees) on the imported raw material.
- Applicable custom duty in case of Imported H.R. Coil.
- Bidders shall submit price break-up of goods offered as per ANNEXURE D.

#### Bid Currencies

- The local manufacturers are required to quote their offer in local currency (PKR) on FOR basis. However, local manufacturers are allowed to bid in foreign currency, only to the extent of imported component i.e. HR Coil which will be paid in equivalent Pak Rupee, calculated using the Interbank Selling Rupee/Dollar exchange rate (issued by the Treasury Management Group of the National Bank of Pakistan) prevailing at the time of filling of first Bill of Entry per vessel, as it appears on respective Goods Declaration (GD)...
- Foreign bidders are required to quote in Bidder's Home Currency or USD. (FOB/C&F/FOR)
- The bids shall be evaluated using interbank Dollar Rupee exchange rate as on the day of public opening of Technical Proposal (issued by the Treasury Management Group of the National Bank of Pakistan/ State Bank of Pakistan).
- Document lishing Eligibility of the Bidders and the Goods:

The Bidder shall alid API certification from American Petroleum Institute, USA & ISO 9001 from internationally recognized organization satisfactory to the Purchaser establishing both the Bidder's eligibility to bid. For coated Pipe the manufacturer shall also provide documentation with the bidding documents for in house quality program for 3 layer PE coating shall confirm to any e of the quality control products, i.e. API Spec. Q1 or API ISO 9001.

10. Documents Establishing the I palifications to Perform the Contract:

The documentary evidence of the Bid er's qualifications to perform the Contract, if its Bid is accepted shall establish to the Purchaser's satisfaction prior to award

- ly Goods under the Contract which the Bidder did not manufacture That, in case of a Bidder offering duly authorized by the Good's manufacturer or producer to or otherwise produce, the Bidde has supply the Goods to or in the Purchas
- Company reserves the right to check and v Bidder's financial, technical and production capability to perform the contract.
- 11. Documents Establishing the Goods Conformity to the Bidding D

The documentary evidence of the Goods conformity to the Bidding Documentary may be in the form of literature, drawings and data and shall furnish.

- haracteristics as well as an original A detailed description of the Goods essential technical and perfe printed copy of technical literature or authenticated and legible phosubmitted together with the bid. In case the Bid is not supported by of technical literature must be gi al or authenticated technical noted in the Bid then the literature or the accompanying literature does not support the specifications Purchaser reserves the right to reject such Bid.
- A clause-by-clause commentary on the Specifications, demonstrating the Go s sonsiveness to those Specifications or a statement of deviations and exceptions to the provisions of the
- Specifications or a statement of deviations and exceptions to the provisions of the second attentions. For purposes of the commentary to be furnished pursuant to above, the Bidder shall so that standards for workmanship, material and equipment and references to brand names or catalogues numbers, designated by the Purchaser in the Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute other authoritative standards, brand names and/or catalogue numbers in its Bid provided that it demonstrates to the Purchaser's satisfaction that the substitutions are equivalent or superior to those designated in the Specifications.

#### 12. Bid Security

- The Bidder shall furnish as part of its Bid, a bid security in the amount equal to Fixed Bid Bond as enumerated in the price schedule
  - In the event of bid bond validity following short of the prescribed period of 150 or 180 days as the case may be either (i) due to extension in the bid submission date or (ii) where so required by the procuring agency, then in such an event'it shall be mandatory on the bidder to extend the Bid Bond Validity upto 150/180 days within 30 days of the opening of technical proposal / bid, and / or where so required by the procuring agency.
- The bid security shall be denominated in the currency of the Bid or any other freely convertible except that bidders from Pakistan may furnish the bid security in Pak Rupees (local agent of

can also submit bid bond in Pak Rupees). It shall be valid for thirty (30) days beyond the validity of the Bid and shall be in one of the following forms:-

- i. Bank Guarantee issued by a scheduled Bank in Pakistan acceptable to the Purchaser in the form provided in the Bidding Documents (Annexure A).
- ii. Pay Order issued by a local commercial bank or branch of a foreign bank in Pakistan.
- c. Any Bid not secured above will be rejected by the Purchaser as non-responsive.
- d. The Purchaser reserves the right to retain the bid security submitted by the Bidder until the Purchaser enters into an agreement or until 150 days after bid opening whichever is earlier.
- e. The bidder(s) are essentially / mandatorily required to submit fixed bid bond as mentioned in the bid form/BOQ along with the technical proposal against each individual lot and its validity to be 150 days at the time of opening of technical proposal.
- f. In case if the bid bond validity fall short of 150 days due to extension in bid submission date, the bidder(s) are liable to extend the bid bond validity upto 150 days within 30 days of the opening of technical proposals.
- g. The successful Bidder's bid security will be discharged/returned upon the Bidder's executing the Contract, and furnishing the performance security.
- h. The bid security / bid bond will be forfeited if a bidder withdraws the bid during validity period specified by the bidder or if successful bidder fails to:
  - > Accept purchase order,
  - Furnish performance guarantee in accordance with clause # 20 of Special Terms & Conditions Supply material as per requirement and delivery schedule.

#### 13. Opening of Bids by Purchase

- a. The Purchaser vill open Technical Proposal in the presence of Bidder's authorized representative who may wish to atte the management of the Bidder's representatives who are present shall sign a bid opening/bidder's attendance met/register evidencing their attendance.
- b. The Bidder's name, prices the circulabilited bids all discounts offered, modifications and bid withdrawals and the presence or absence of the quisite bid security and such other details as the Purchaser at its discretion may consider appropriate will be announced and recorded at the time of financial bid opening.
- c. The comparison of bids shall be of the expectory, ex-warehouse, off the shelf price of the Goods to be offered from within the Purchaser's country such price include all costs as well as duties/taxes paid or payable on components and raw material mean rated or to be incorporated in the Goods), and the C&F (port of entry) price of the Goods offered can outside the Purchaser's country plus the custom duties/taxes, clearance, inland transportation and issurance etc. The multiplier to be applied to the C&F price of the Goods from outside the Purchaser as puntry shall be determined by the Purchaser in accordance with the prevailing tariff structure.

#### 14. Evaluation Criteria and Comparison of Bids

In accordance with SRO 827 (1) 2001 bidders tendering for engineering goods profiled in Pakistan shall be accorded a Price preference in rupees up to a specific percentage (in proportion to the value add to be fitted by the lowest quoted landed cost of an item of foreign origin with similar specifications as mentioned in the tenders.

i) P	Provided that:-
------	-----------------

- (a) The saving in foreign exchange is not less than the amount of price preference;
- (b) It is ensured that, in each case of such preference, the total import requirements for producing the supplies tendered for locally manufactured items has been duly indicated by the bidders.
- ii) Price preference shall be allowed as under:-
  - (a) Having minimum of twenty percent value addition through indigenous manufacturing, price preference shall be fifteen percent:
  - (b) Having over twenty percent and up to thirty percent value addition through indigenous manufacturing, price preference shall be twenty percent, and
  - (c) Having over thirty percent value addition through indigenous manufacturing, price preference shall be twenty five percent.
- For the above purpose, we will require a complete breakdown of ex-factory price for goods manufactured in Pakistan. Any offer not accompanied with this cost breakdown as per ANNEXURE

   D will not be allowed to receive the above price preference.



iv)

Benefit of SRO 827 (1)/2001 shall be accorded to only those local manufacturers who are engaged in the manufacturing of goods specified in CGO - 11 of 2007 or as certified by the EDB.

However in case of offer on FOB basis, the landed cost to be determined in accordance with the following criteria be taken for evaluation in case of International bidders, and shall be taken for the purpose of comparison with the price quoted by local manufacturers, who shall also be accorded the price preference in terms of SRO 827 (1)/2001. The landed cost determined in accordance with the afore said criteria shall be taken for bid evaluation in case of international bidders, and shall be taken for the purpose of comparison with the price quoted by the local manufacturers. Example of landed cost for evaluation of the international bidders is given here under

#### **EXAMPLE**

S.	Cost Components for computing landing cost of imported
No.	Engineering goods in terms of S.R.O 827 (1)/2001 in Pak Rupees.
i.	FOB Value.
ii.	Sea Freight (Actual quoted by the bidder on the basis of PNSC rates, which shall be announced
	by the bidder at the time of opening of the bid).
iii.	C&F value (i + ii). (CFR value).
iv.	Insurance @ 1% of C&F Value given at iii above.
v.	CYC value (iii + iv).
vi.	fing Charges @ 1 % of CIF Value given at v above.
vii.	Let $(v + vi)$ for the purposes of levying Customs Duty.
viii.	Cus on Day at applicable rate, which shall be calculated on the import value given at vii above.
ix.	Duty Paid Varue.
x.	Sales Tax at approache rate, which shall be calculated on the duty paid valve given at ix above.
xi.	Duty & Sales 1 ax $mid$ value (ix + x).
xii.	Withholding Tax at a plicable rate, which shall be calculated on duty and sales tax paid value
	given at xi above.
xiii.	LC Charge@ 0.25% of OB Value given at i above.
xiv.	Clearing Charges @ 0.25%
xv.	SED at applicable rate, When shall be calculated on the import value given at vii above to be
	taken as nil as it stands withdraw
xvi.	Provincial Infrastructure Cess ( a plicable rate) on %age of import value given at vii
xvii.	KPT Wharfage @ Rs. 140 per cubic is eter or the prevailing rate.
xviii.	Cranage Loading & Other Charges@ 0.25 6 C&F Value given at iii above.
xix.	Inland Transportation Charges from Port to C or ng Factory (From Port of final destination in
	case of products other than pipes, where coating is no required).
xx.	Cost of imported engineering goods (xi to xix).
xxi.	LESS: Handling Charges taken at Sr. No. vi (Notional) at etaken for calculating assessed value
	for purpose of calculating custom duty, sales tax and withing ding tax by the customs authority).
xxii.	LESS: Sales tax taken at x above. (Adjustable as output ta).
xxiii.	LESS: With Holding Tax. (Adjustable against final assessed to 12)
xxiv.	Total deductions (xxi + xxii + xxiii)
XXV.	Net cost of imported engineering goods (xx minus xxiv)

Note: Any other duty / tax / levy imposed or withdrawn by federal / provincial government to be incorporated, with the approval of EDB in consultation with the concerned organization(s).

- v) Foreign bidders are essentially required to submit letter of PNSC for ocean freight to apportation rate for break bulk/hedges from their local agent.
- vi) Please indicate approximate shipping specification, i.e. weight and measurements of the packages/bundles and also total gross weight (in terms of metric tons), and total gross volume (in terms of cubic meters) of each consignment separately.
- vii) For evaluation of bids customs duty, taxes and all other charges prevailing on the date of public technical opening of bids will be used, where applicable.
- viii) For the purpose of price comparison and evaluation of bids, financial charges will also be added to arrive at a landed cost, which will inter-alia include, mark up and other charges etc.
- In terms of SRO 827(1)/2001 and as clarified by Engineering Development Board (EDB) vide letter No. EDB.SRO 827/Tech-II dated 26.10.2011 that if the local manufacturer becomes the lowest evaluated bidder after Price Preference, order will be placed at the price (landed Cost) quoted by the lowest evaluated international bidder. In case the local bidder does not accede to the request of SSGCL for best negotiated rates at par with those received from International bidder for particular item (s) then, the order will be placed on the lowest evaluated international bidder.

- x) "Price Preference" shall not be in "Value Terms" it should only be sake of reference for comparison purposes (local & foreign bids).
- xi) Evaluation will be made on delivered price at designated location / Coating Factory for local bidder(s) and on landed cost (as per EDB formula) for foreign bidder(s). SSGC reserve the right to cancel / amend the quantities without assigning any reason.

#### 15. Contacting the Purchaser

No Bidder shall contact the Purchaser on any matter relating to its Bid or in respect of any other bid or any other provisions of the tender from at the time of bid opening to the time the Contract is awarded. Clarification may be sought before bid opening.

16. Purchaser's Right to accept or reject any or all Bids

The company reserves the right to accept and / or reject any offer or cancel the tender enquiry altogether or to extend closing date of this tender enquiry without assigning any reason whatsoever at any time prior to award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

#### 17. Post qualification and Award

a. The Purchaser will determine to its satisfaction whether the Bidder selected as having submitted the lowest evaluated responsive bid is qualified to satisfactorily perform the Contract.

The determination will take into account the Bidder's financial, technical and production capabilities. It was a based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder.

- c. To verify its technical and production capability, the Bidder must provide documentary evidence that the items offered have been in commercial production and that Goods of similar specifications have been sold and have been it is significant.
- d. An affirmative order in tion will be a pre-requisite for Award of the Contract to the Bidder. A negative determination will set in in rejection of the Bidder's bid.
- e. Inspection of manufacture in acilities of lowest evaluated responsive local/foreign manufacturer will be carried-out by SSGC's noning ed. Party Inspector at the Cost of Company.
- f. The Purchaser will award the Contract to be successful Bidder whose bid has been determined to be the most advantageous responsive bid, provided further that the Bidder is determined to be qualified to satisfactorily perform the Contract.
- 18. Purchaser's Right to Award the Contract to more than one Bittee

The Purchaser may split the quantities and award the court of the more than one supplier based on the following grounds:-

- Production capacity / capability
- Schedule of existing purchase orders on the bidder
- Bidders past performance.

#### 19. Notification of Award

Purchase order of quoted material may be placed on fulfilment of conditions mantioned in the tender document.

#### 20. Performance Bank Guarantee

- a. The successful Bidder shall furnish the Performance Bank Guarantee @ 10% of PO value within 15 days after issuance of LOI or placement of Purchase Order as per format provided in the Bidding Documents valid up to:
  - i) For local Manufacturer: 18 months after delivery of Line Pipe to SSGC designated location.
  - ii) For foreign bidders: 18 month from FOB Shipment or 15 months after arrival of goods at SSGC's designated location, whichever is earlier.

#### 21. Subcontracts:

- a. The Supplier shall not subcontract all or any part of the Contract without first obtaining the Purchaser's approval in writing of the subcontracting and the sub-contractor.
- b. The Supplier guarantees that any and all subcontractors of the Supplier for performance of any part of the work under the Contract will comply fully with the terms of the Contract applicable to such part of the work under the Contract. The Purchaser assent to appointment of sub-contractor/sub-contracting shall not relieve the Supplier of all obligations under the Contract.



#### 22. Country of Origin:

- All Goods supplied under the Contract shall have their origin in eligible countries. (Issued / Endorsed by Chamber of Commerce)
- b. For purposes of this Clause, origin shall be considered to be the place where the Goods were mined, grown or produced. Goods are produced when through manufacturing processing or substantial and major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

#### 23. Patent Rights

The Supplier shall indemnify and hold the Purchaser harmless against all third-party claims of Infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof.

#### 24. Guarantee

- a. The Purchaser shall promptly notify the Supplier in writing of any claim arising under this Guarantee.
- b. Upon receipt of such notice, the Supplier shall promptly repair or replace the defective Goods or parts thereof, without cost to the Purchaser other than, where applicable the cost of inland delivery of the repaired or replaced Goods or parts from the port of entry to the final destination.
- c. Without prejudice to other clauses, the Supplier shall promptly correct at no cost to the Purchaser any defect n any work of correction performed, upon receipt of written notice of defect within twelve (12) months in acceptance of the corrected defect.
- d. If the Supplier, having been notified, fails to remedy the defect (s) in accordance with the Contract, the Purenaser may proceed to take such remedial action as may be necessary at the Supplier's expense. The Supplier's Guarantee is without prejudice to any other right or remedies which the Purchaser may have against the Sympher under the Contract.
- e. Any amount patible by the Supplier under this Clause may be recovered by the Purchaser by withdrawing from the Performance see rity without having to notify or seek the approval of the Supplier.
- f. In addition to the requirements of (a) to (e) above, in case of line pipe leak/failure detected at the time of hydrostatic testing of line with auting construction, the Supplier shall pay to the Purchaser a lump sum amount of Rs. 1,500,000/- or (1) defent equivalent) at a rate pursuant on bid opening date per leak on account of expenditure incurred by SSGC for locating / detecting leak including replacement etc.

#### 25. Termination for Convenience:

- a. The Purchaser may by written notice sent to the Stoplier, terminate the Contract, in whole or in part, at any time for its convenience. The notice of terminator's shall specify that termination is for the Purchaser's convenience, the extent to which performance devotes under the Contract is terminated and the date upon which such termination becomes effective.
- b. The Goods that are complete and ready for delivery with the ty (30) days after the Supplier's receipt of notice of termination shall be purchased by the Purchaser at the Contract prices and on the other Contract terms. For the remaining Goods, the Purchaser can also opt to be any portion thereof completed and delivered at the contract prices and on the other contract terms.

#### 26. Termination for Insolvency:

a. The Purchaser may at any time terminate the Contract by giving written notice. The Supplier, without compensation to the Supplier, if the Supplier becomes bankrupt or otherwise inso yent. Notwithstanding the above, such termination will not prejudice or affect any right of action or remedy which as accrued or will accrue thereafter to the Purchaser

#### 27. Termination for Default:

- 27.1 The Company may, without prejudice to any other remedy by written "notice of default" sent to the supplier, cancel the purchase order whole or in part; if:
  - 27.1.1 The supplier fails to deliver any or all of the ordered quantity as per specified delivery schedule or any extension thereof granted by the Company
  - 27.1.2 The supplier fails to perform any other obligation(s) under the "purchase order".
  - 27.1.3 The Company during the delivery period has reasons to believe that the supplier will not be able to fulfill the obligations under the purchase order/contract.

The Company prior to exercising its right to cancel the purchase order/contract shall issue notice to the Supplier specifying the default(s) and the supplier shall submit an explanation within seven (07) days of receipt of such notice. If such explanation is not furnished within the stipulated time or if so furnished, is found to be unsatisfactory and/or the default(s) continues, purchase order/contract may be cancelled. The Company in addition to cancellation of purchase order/contract may suspend/cancel the enlistment of supplier.

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- 27.2 The Company shall have the right to terminate/cancel the contract/purchase order concluded between the supplier and Company; if:
  - 27.2.1 The successful bidder fails to furnish the performance bond as under clause # 20 of Special Terms & Conditions thereof.
  - 27.2.2 The supplier fails otherwise to perform, fulfill or comply with terms, conditions, regulations and requirements of the contract/purchase order to carry out the work in accordance with the provisions thereof or abandons the shipment.
  - 27.2.3 The supplier becomes bankrupt or insolvent or makes an assignment for the benefit of its creditors.
  - 27.2.4 One or more consignments of material delayed by a period of more than three months or non-supplied.
  - 27.2.5 Rejection of manufacturing items as a result of observation by inspection team.
  - 27.2.6 Penalty on higher rejection rate of supplied goods.

#### 28. Taxes and Duties, Corporate/Insurance Tax:

- The Supplier shall be entirely responsible for all taxes, stamp duties and other such levies imposed outside the Purchaser country.
- b. All taxes of suppliers, its representation and employees including income tax and corporate tax shall be sole responsibility of the supplier.
- c. Purchaser shall have the right to deduct tax at source at rate applicable to non-resident in accordance with job one tax ordinance or any other law in force at the time of payment.
- d. I supplier is not liable to pay tax under the income tax ordinance or is liable to pay tax at a lower rate than supplier and obtain a certificate from the tax authorities in Pakistan to that effect. If the required certificate is not croduced by the supplier prior to the date of payment, then the Purchaser shall deduct tax at source at rate applied to non-residents from the gross payment due to supplier.
- In an event of any cut of excise duties or tax on any goods is imposed or increased, either by the provincial or Federado Government, the SSGCL shall not be liable to pay the amount so charged from the supplier/seller. The supplier/seller shall have no right to claim repayment or any from SSGCL paid by him on account of imposition of new custom excise duties or tax or increase in existing rate of custom excise duty or tax.

#### 29. Handling and Transportation:

- a. The Supplier shall be responsible for and shall provide as part of its work all services and functions related to handling, loading, lashing, securing, unloaded and stacking up to the Delivery Point at its own risk and cost, All costs, charges and expenses of which shall be included in the Contract price, unless otherwise specified in the Special Conditions of Contract. The co-ordination, scheduling and lining-up for delivery of FOR Contract shall be the obligation of the Soplier. The supplier is responsible to complete all activities for handling and transportation as per recommended fractice for truck transportation of line pipe API 5LT (Annex-F).
- b. In case of C&F Contract, the Supplier shall be responsible for any shill provide as part of its work all services and functions related to handling, loading, unloading, lastif g at securing in ship's holds upto the Delivery Point (Port) at its own risk and cost. All costs, charge to expenses of which shall be included in the Contract price, unless otherwise specified in the Special Conditions of Contract. The coordination, scheduling and lining-up for a PNSC vessel in case of C&F Contract hall be the obligation of the Supplier that line pipe has been placed in the vessel and truck as per reconnended practices for transportation of line pipe on truck (API 5LT) and transportation on barges and that it was sels API 5LW third edition 2009 (Annex-G).
- c. In case of FOB Contract, the Supplier shall be responsible for and shall provide as part of its work all services and functions related to handling, loading, unloading, lashing and securing in ship's holds upto the Delivery Point (Port) at its own risk and cost. All costs, charges and expenses of which shall be included in the Contract price, unless otherwise specified in the Special Conditions of Contract. The coordination, scheduling and lining-up for a PNSC vessel in case of FOB Contract shall be the obligation of the Supplier that line pipe has been placed in the vessel and truck as per recommended practices for transportation of line pipe on truck (API 5LT) and transportation on barges and marine vessels API 5LW third edition 2009 (Annex-G).
- d. The Supplier shall ensure that all above mentioned acts and other incidental and ancillary functions are conducted in accordance with sound and acceptable engineering practices/API STANDARDS. The Purchaser and his agent shall be entitled to object to any incorrect or inadequate practice adopted by the Supplier in this respect and the Supplier shall take corrective forthwith to correct such practice.
- e. If any Goods are discovered to be damaged or unacceptable, the Supplier shall be responsible for replacement free of all charges and costs to the Purchaser within the delivery period specified in the Contract.

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- f. The Supplier shall reimburse the Purchaser all additional duties, taxes and other such charges paid by the Purchaser on account of short shipment by the Supplier for all items subsequently shipped on a no-charge basis or otherwise by the Supplier. The Supplier shall also reimburse the Purchaser all additional duties, taxes and other such charges paid by the Purchaser on account of incorrect invoicing by the Supplier.
- g. The Supplier hereby covenants and guarantees that in a C&F/FOB Contract the Goods/Material will be shipped with all care and diligence at the risk and cost of the Supplier. The Supplier further guarantees that the Supplier shall be responsible for all damage/losses to the Goods/Material during inland and marine transportation from the Supplier's plant until arrival at Karachi Port.
- h. The Supplier hereby guarantees that in the event of a C&F/ Contract, the Supplier shall use vessel suitable for marine transportation and shall not use tramp vessels.
- i. The Supplier hereby covenants and guarantees that in a FOR Contract the Goods/Material will be loaded with all care and diligence at the risk and cost of the Supplier. The Supplier further guarantees that the Supplier shall be responsible for all damage/losses to the Goods/Material during transportation upto SSGC's designated Site/Coating Factory/Dumps or from sea port to Coating Plant in case of FOR through import. The Supplier's obligations will be over and above those laid down elsewhere in this Clause.

#### 30. Delivery and Documents:

#### In case of Local Offer:

- a. Delivery of Goods shall be made by the Supplier in accordance with the terms specified by the Purchaser and the Goods shall remain at the risk of the Supplier until the Goods are properly lashed in the hold of the Trailer/Truck and delivered at SSGC's designated pipe dumps.
- b. The selection of the deemed to have been made when the Supplier has loaded the Goods against an invoice of the very challan and all other such documentation, as specified in Special Conditions of Contract hereusaer, have been furnished to the Purchaser.
- c. The Delive Solerance will be  $\pm 1\%$  of the ordered quantity.
- The Supplier shall advise be Pu chaser by fax at least seven (7) days prior to the expected date of delivery.

#### In case of FOB/C&F offer

- d. Delivery of Goods shall be made by the Supplier in accordance with the terms specified by the Purchaser and the Goods shall remain and the Supplier until the Goods are properly stored and lashed in the hold of the vessel.
- e. Shipment shall be deemed to have been made when the Supplier has shipped the Goods against a clean bill of lading and all other such do the cation, as specified in Special Conditions of Contract hereunder, have been furnished to the Purchaser.
- f. The Delivery Tolerance will be  $\pm 1\%$  of the ordered quantity.

#### 31. Licenses and Permits:

- a. The Supplier shall make all payments for royalties or sees in respect of letter of credit, patent, registered design, trademarks or names, copyright or other protected to gets due or payable for or in connection with any matter or thing used or required to be used in the performant of the Contract or to be supplied under the Contract whether payable in lump sum or by installment of the twise to those to whom they may be due or payable all such payments shall be deemed to have been all that by the Supplier in the Contract price.
- b. The Supplier shall fully indemnify and keep the Purchaser indemnified all times against any action, claim, demand, charges, cost or expenses arising from or incurred by reason of any infringement and alleged trademark or traders name protected in Pakistan by the use or sale of the Goods and against all costs which the Purchaser may incur in any action for such infringement or for which the Purchaser may become liable in any such action.

#### 32. Notices

a. All notices called for by the terms of this Contract shall be effective only at the time of receipt thereof and only when received by the parties to whom they are addressed to at the following address:-

Purchaser:	Managing Director,
	SSGC House,
	Sir Shah Suleman Road,
	ST 4 / B. Gulshan-e-Iqbal, Block 14
	P.O. Box 17989
	KARACIII - 75300
	www.ssgc.com.pk
Supplier:	



#### 33. Inspection and Tests:

- a. The Purchaser shall have the option of placing an independent Inspection Agency/Inspector and having inspection carried out by Purchaser's (Engineer (s)) to witness manufacture and ascertain or all tests specified by Inspector as per contract and the Supplier shall give reasonable notice to the Inspector/Purchaser's Engineer (s) of the time and manufacture/test is planned to be carried out/conducted during such period.
- b. Where inspection is to be carried out through Third Party Inspection/Independent Inspection Agency, the cost of appointing such inspection shall be borne by the Purchaser. However all laboratory charges outside the factory for conducting test as per API will be responsibility of bidder.

The right of plant access, inspection, rejection, compliance etc will be in accordance with codes and standards as specified in the tender documents.

Upon receipt of all necessary information and the certificates and reports to be provided by the Supplier in respect of each consignment (and upon replacement of correction of any Goods rejected by the inspector under this Clause when such rejected Goods formed part of the consignment), the inspector shall issue an Acceptance Certificate upon being fully satisfied that the Goods conform strictly and completely with the Contract specifications.

The inspector shall further issue a Certificate upon being fully satisfied that Goods conforming to the Contract specifications have been loaded, stacked and lashed in accordance with acceptable *recommended* practices of API standards. Any certificate issued by the inspector shall not release the Supplier of its obligations under the Contract. The term Inspector shall also include and means the Purchaser's incineer(s) as well. Manufacturing facilities of foreign bidder, if determined lowest compliant would be a rice out by SSGC's nominated 3<sup>rd</sup> party inspection firm.

c. The bit fier (s) are also responsible to ensure safe transportation (ship / truck) of bare and coated pipe to the designated a cation as per recommended practices for transportation of line pipe through truck (API 5LT) and transportation of line pipe on barges and marine vessels API 5LW third edition 2009 (Annex-G).

#### 34. Withholding / Income Tax

In case of Local Manufacturer the Purch ser will deduct applicable withholding tax and all similar taxes and duties it may be required to withhold in settle and to of Supplier's invoices either through Local L/C or Online as per given IBAN number. The tax so deducted will be aid into the Government account and the Supplier may seek adjustment of same against his final yearly tax liability. There the Supplier can produce a valid tax exemption certificate, such deduction will not be made.

35. General Sales Tax (G.S.T) for local manufacturers:

The Bidder shall be registered with General Sales Tax and a copy of valid G.S.T. registration certificate should be provided without which the Bid will not be considered.

Quoted price shall be inclusive of all taxes, except GST.

36. Raw Material / H.R. Coil

In case of raw material / H.R. Coil etc used for manufacturing of Pipe et supplier are required to submit compléte detail of ex-stock availability / expected delivery of H.R. Coil. SSGC will not be responsible for any delay in delivery of line pipe due to late receipt of H.R. Coils from the H.R. Coil Manufacturer as appliers.

37. Payment of Exchange Rate Differential Amount

The payment of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the formation of exchange rate differential amount to the local manufacturer shall be in the loc

The payment of exchange rate differential amount to the local manufacturer for imported H.R. will shall be made in equivalent Pak Rupees, calculated using the Interbank Selling Rupees Dollar Exchange Rate (issued by the Treasury Management Group of the National Bank of Pakistan) prevailing at the time of filing of first Bill of Entry per vessel, and on the date of bid opening.

For the purpose of calculation of exchange rate differential amount, insurance charges will be calculated at actual as they appear on respective bill of entry.

#### 38. Destination:

SSGC's Site as specified in Freight Schedule for both local and foreign manufacturer.



#### SCHEDULE OF REQUIREMENT AND BID FORM FOR BIDDERS OUTSIDE THE PURCHASER'S COUNTRY TENDER ENQUIRY NO.SSGC/FP/PT/13639

Sr	Description	Country of Origin	Quantity.	Unit Price FOB Port of Loading	Total FOB Cost. COL (4 x 5)	*Unit Price C&F Port of Entry Kårachi	Total C&F Port of Entry COL (4 x 7)
1	2	3	4	5	6	7	8
1	LINE PIPE ERW/SAW API 5L GRADE X60 PRECOATED [2   01323483 LINE PIPE 16" OD x 375" WT POLYETHYLENE COATED (PSL-2) (AS PER SPECIFICATIONS ATTACHED)		600 Meters				
2	LINE PIPE SPIRAL WELD API 5L GRADE X60 (PSL-2) PRE-COATED   3   01324443 LINE PIPE 18" OD x 0.406" WT BEVELLED ENDS, POLYETHYLENE COATED (AS PER SPECIFICATION ATTACHED)		612 Meters				
3	LINE PIPE API 5L GRADE X60 SPIRAL WELD [   1   01323923 LINE PIPE 20" OD. x 0 438" WT POLYETHYLENE (PSL-2)(AS PER SPECIFICATION A TACHED)		636 Meters	,			

ked Bid Bond @ (USD=2,260) OR (PKR=635,000).

#### Notes:

Having examined the Bidding Documents for the above Contract including the Specifications, the receipt of which is hereby duly acknowledged, we the undersigned offer to supply and deliver the Goods in conformity with the said Bid Documents including all addendums for the sum of (Total Bid Amount FOR/FOB/C&F in Words and Figures) or such other sums as may be ascertained in accordance with the Price Schedules attached hereto and made part of this Bid. We undertake, if our Bid is accepted to immence and complete delivery in accordance with the Schedule of

Requirements and Delivery Period provided in the Special Conditions of Contract.

If our bid is accepted, we will provide the Perice are Security in the sum of (Amount) equal to 10 percent of the Contract price for the due performance of the Contract. We understand that our Bid Security will be forfeited if the Performance Security is not furnished within Fifteen (5) appet the receipt of the notice of award of contract.

We agree to abide by this Bid for the period of One Hunt ed. Twenty (120) days or any further extension from the date fixed for bid closing and shall remain binding upon us and payer accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this Bid together with your written acceptance thereof in your notification of award shall constitute a binding Contract between us.

#### **IMPORTANT**

- 1. Prices given here in shall take into account all relevant factors including dis our if any.
- 2. Performa Invoice submitted by the supplier shall match with the price schedule.
- 3. The Price on FOB and C&F basis should be quoted separately as given about of the wise the bid may not be entertained.
- 4. Freight letter of Pakistan National Shipping Corporation (PNSC) must be attached with the bid.
- 5. Following information must also be mentioned in the bid.
- o Country of Origin
- Port of Shipment
- o Estimated Gross weight / volume
- 6. The bidders are required to fill Price Breakdown Form at Annexure-E.

SIGNATURE OF	
BIDDER	-
NAME	
NAME OF COMPANY	
STAMP	
DATE ·	



#### SCHEDULE OF REQUIREMENT AND BID FORM FOR BIDDERS WITHIN THE PURCHASER'S COUNTRY TENDER ENQUIRY NO.SSGC/FP/PT/13639

Item Sr. #	Description	Quantity: (Meters)	Unit Price (Rs.)	Total Price Excluding G.S.T (Rs.)
1	2	3	4	$(3 \times 4 = 5)$
1	LINE PIPE ERW/SAW API 5L GRADE X60 PRECOATED   2   01323483 LINE PIPE 16" OD x .375" WT POLYETHYLENE COATED (PSL-2) (AS PER SPECIFICATIONS ATTACHED)	600 Meters		·
2	LINE PIPE SPIRAL WELD API 5L GRADE X60 (PSI-2) PRE- COATED  [3   01324443  LINE PIPE 18" OD x 0.406" WT BEVELLED ENDS, POLYETHYLENE COATED (AS PER SPECIFICATION ATTACHED)	612 Meters		
3	LINE PIPE API 5L GRADE X60 SPIRAL WELD  [1] 01323923  LINE PIPE 20" OD. x 0.438" WT. POLYETHYLENE COATED  (PSL-2)(AS, IR SPECIFICATIONS ATTACHED)	636 Meters		

1x d Bid Bond @ (USD=2,260) OR (PKR=635,000).

#### **IMPORTANT:**

In case of any conflict between the terms (formal pecified in tender documents and elsewhere, the terms given **Special Terms & Conditions** will supersede:

- i. The price offered should be firm and irrevocable to powever, bidders offering HR Coils manufactured by Pakistan Steel will have to provide documentary evidence of published rates of Pakistan Steel at the time of submission of bids. These documents would be got authenticated by SSGCL from PSM.
- ii. Variation in line-pipe rate after bid opening date with Subject to adjustment to the extent of H.R. Coil price notified by Pakistan Steel.
- iii. The bidders are required to submit break up of rates indicating portion prices meter of H.R. Coil (Pakistan Steel's). All other charges (including transportation of H.R. Coil, Bare Pipe conversion of the c
- iv. In case of any change in the published rates of H.R. Coil by Paristal Steel, after bid opening and during the currency of order, the increase/decrease in price, as the case may be would be allowed without wastage to those bidders after 20 days of its revision, accordingly.
- v. In case the manufacturer fails to supply the goods within the stipulated delivery period and seeks extension from the Company and that in the event of extension granted by the Company, in completion of the stoply of pipe, in case the price of H.R. Coils is increased during the extended period for which delivery has been delayed by the manufacturer, no increase in price of H.R. Coils will be admissible and it will be the sole liability of the manufacturer to supply the pipe as a reportracted prices.
- vi. No escalation is applicable on line-pipe which are manufactured from imported H.R. Coj'
- vii. Bidders are essentially required to provide an evidence of Coil purchases from PSM ter realation announced by Pakistan Steel failing which no escalation would be applicable.
- viii. As per specification manufacturer will provide reports from independent laboratories of restriction mechanical properties and chemical analysis. If manufacturers have in-house facility of metallographic examination to the still action of 3<sup>rd</sup> party inspector, samples need not be sent to outside laboratory. However, inspector could send random samples to out at laboratory at bidders cost and arrangements.
- ix. If our bid is accepted, we will provide the Performance Security in the sum of (Amount) equal to 10 percent of the Contract price for the due performance of the Contract. We understand that our Bid Security will be forfeited if the Performance Security is not furnished within Fifteen (15) days of the receipt of the notice of award of contract.
- Bidder (s) are to submit a certificate on Rs. 100/= non-judicial stamp paper certifying that they are not blacklisted by any Government / Autonomous body and are not defaulted supplier (s).

SIGNATURE OF	
BIDDER	
NAME	
NAME OF COMPANY	
STAMP	
DATE	



#### **Delivery Schedule:**

### i. FOB/ C&F:

The quantities of line-pipe required to be delivered in accordance with the schedule from the date of Opening of the Letter of Credit. Details are given here under:-

#### **Delivery at Karachi Port**

Detail	Quantity (Meters)	FOB	C&F
LINE PIPE ERW/SAW API 5L GRADE X60 PRECOATED [2] 01323483 LINE PIPE 16" OD x .375" WT POLYETHYLENE COATED (PSL-2) (AS PER SPECIFICATIONS ATTACHED)	600 Meters		
LINE PIPE SPIRAL WELD API SL GRADE X60 (PSL-2) PRE-COATED    3   01324443  LINE PIPE 18" OD x 0.4060 VT BEVELLED ENDS, POLYETHYLENE COATE (STER SPECIFICATION ATTACHED)	612 Meters	Complete shipment is required within 120 Days (or earlier) from the date of opening of L/C.	Complete shipment is required within 150 Days (or earlier) from the date of opening of L/C.
LINE PIPE API SL GRADE x60 PIR. L WELD [1] 01323923 LINE PIPE 20" OD. x 0.438" WI. POLY WHYLENE COATED (PSL-2)(AS PER SPLCIFICATIONS ATTACHED)	636 Meters		

#### ii. FOR (Local Manufacturer)

• Delivery to start from 1.1 days after the placement of Purchase Order / opening of operative LC and Complete Order quantity of line pipe to be delivered in 30 days (or earlier) by the manufacturer of unloading and stacking on wooden skids (6" x 6" x 9ft Long) & Wooden Wedges (3" x 3" x 3") provided by the bidder at designated dump location, i.e: (KM 540 + 385 (Doy a s ream By-pass assembly near Memon Goth)). Late submission of PBG should not affect the delivery schedule.

I/We have carefully read and under stood the specifications and terms & conditions of the above tender enquiry and fully agree.

SIGNATURE OF PO	ER'S REP:
NAME:	/ <sub>A</sub>
NAME OF BIDDER:	<b>7</b>
STAMP:	`~
DATE:	V <sub>C</sub>
	<b>%</b>



# Breakdown of Prices (For the Manufacturer within the Country) Tender Enquiry # SSGC/FP/PT/13639

exchange Rate Rs/\$				Rs
Item #				
Outside Diameter	min			
	Inch			
Thickness	Inch			
API 5L Grade	HIQII '			
Quantity	meters			
<del>-</del>	MT	Married and the state of the st	***************************************	
Wpe	kg/m			
Sa	m <sup>2</sup> /m			
Sr. Decri	ption	Currency	Rate per Meter	Rate per ton
1   Hot Rolled Coil 2   Custom Duty				
3 Additional Custom Duty				
4 Regulatory Duty				
5 Pipe Manufacturing Cost				
6 Any other charges (Specify				***************************************
7 Imported Coating Material		,		
8 Coating Application Cost				······································
9 Total Manufacturing Cost	(Pipe) Ex-factory			
10 Transportation to Site				
<ul><li>11 Profit Margin</li><li>12 Selling Price</li></ul>	at distributions and the same			
12 Selling Price				Account of the state of the sta
Description	Per Meter	Per Stand Length		Tendered Quantity
Weight (KG)			S	
Rate / KG (PKR)			Rate / Ton (I	
				7

In accordance with API 5L Clause# 9.14 & Sub Clauses (API 46th edition or latest version).

#### Note:

- 1. Above Break-up is required to apply SRO 827 (1)/2001 in its true spirit.
- 2. SSGC reserve the rights to adjust the price from above break-up in case any item / services with-drawn / not utilized for e.g. if SSGC required Ex-factory delivery, the cost of transportation of bare pipe would be adjusted without seeking any concurrence.
- 3. Loading, lashing, transportation, unloading and stacking on wooden skids at designated delivery location would be responsibility of the local manufacturer (Includes all Cost).



# Breakdown of Prices (For the Manufacturer outside the Country) Tender Enquiry # SSGC/FP/PT/13639

tem #		and calculate contents. At the case the second of the calculate of the cal			
	mm	entre de la companya	· . · · · · · · · · · · · · · · · · · ·		<del></del>
Outside Diameter	Inch	. 4. 4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.			······
3	mm			······	
hickness	Inch	4-11-10-10-th-correction of the section of the sect	***************************************	***************************************	
API 5L Grade		de de motor destantement acción		***************************************	
Quantity	meters		THEFT HE PLANT		MARINE MARINE MARINE
	MT	manus en encompanya per en encompanya en	****	***************************************	
Vpe	kg/m	* * ***********************************		***************************************	
a	m²/m				
2 Pipe Manufacturing Cost 3 Any other charges (Special) 4 Coating Material 5 Coating Application Cost 6 Total Manufacturing Cost (F) 7 Fransportation to Port 8 Profit Margin 9 Selling Price  Description	Per Meter	PrStanc			Tendered
		- Ingt			Quantity
Weight (KG)		•	<b>'</b>		
Weight (KG) Rate / K	ζG	'G	D	a C To	n

1. Above Break-up is required to apply SRO 827 (1)/2001 in its true spirit.





### **Commercial Compliance Sheet**

Name of Bidder:	Date of Bid Opening:			
. Terms	Commitment/Confirmation by the Bidder	Accepted/Non-Accepted by SSGC		
Prices quoted are with and without custom duty on imported Raw Material/H.R. Coils., Welding Flux, Wire etc. separately				
Breakdown of rate of HR Coil, Production Cost, Coating, Duty / Taxes etc				
Prices quoted shall remain firm, irrevocable, fixed and valid until completion of the Contract and will not be subject to variation on any account				
Bid security in the amount as described in the clause 12 of Special Terms and Conditions.				
Bids shall remain valid for 120 days after the date of bid closing				
Payment Procedure				
Delivery Compliance				
<ul> <li>(i) For Local bidders/manuf cavers, If Payment made through Letter of Credit, all bank charges will be on account of supplier. Local LC will be opened inclusive of GST.</li> <li>(ii) For Foreign Manufacturer all bank charges payable in Pakistan will be on account of SGC where as all charges payable outside Pakistan will be on account of supplier.</li> <li>(iii) In case of foreign or local Letter of Credit, why charges on account of time extension of LC shall be some by either supplier or procuring agency to whom such reason of extension are attributed.</li> </ul>				
Delivery of the line pipe shall be made by the supplier from the opening of operative LC / placement of PO. (for Local Manufac year)				
All taxes, stamp duties and other such levies etc shall be supplier responsibility.  The quoted unit price & corresponding total amount shall be inclusive of all duties & taxes except General Sales Tax (GST) for imported coil.	1/0			
Technical Literature has been submitted.	<b>V</b>			
G.S.T registration valid certificate attached.	70,			
	Signature of Signer			

Signature of Bigg		
Date:	S.	
Official Stamp		





# **Checklist for Bidders**

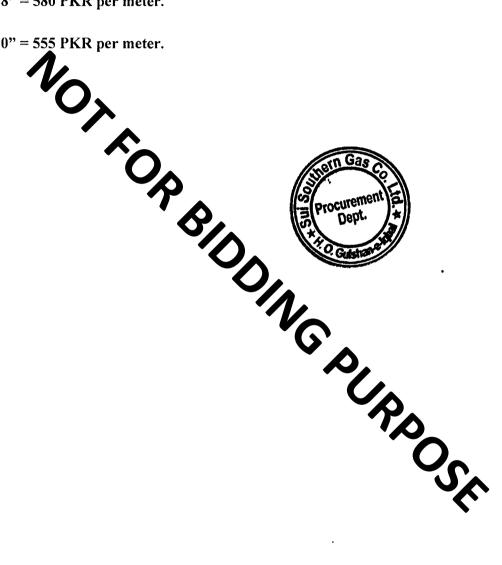
Tender Enquiry # SSGC / FP / 13639

M/	s:			
Pho	one:			
Ce	II No:			
Fax	x No:			
Ple pro	case ensure, before spontitting the bid, that following information/documents have been ovided along your bid. Check $(\checkmark)$ appropriate box.	submitt	ed /	
Sr. No.	Detail Detail of uired information / documents.	Yes	No.	
1	(Price Schedule) "Breakdown of Price" and "Bid Form" are dully filled.			
2	Technical compliance sheet has be in etted.			
3	Fixed Bid Bond as specified in the ten or exament:			
4	Bid validity is 120 days after opening of bid			
5	Delivery period has been specified.			
6	Country of origin of H.R. Coil.			
7	Standard Warranty/Guarantee (if applicable).			
8				
	Original Performa Invoice of Principal / Evidence of Principal / Evidence of Raw Material.			
9	Original technical literature (two copies).			
10	L/C confirmation charges (if desired by bidder) shall be born to the supplier.			
11	If Payment made through Letter of Credit. L/C opening charges along-with any amendment attributable/at the request of suppliers shall be made at the suppliers cost.	i		
12	G.S.T. certificate should be attached			
13	There will be no deviation in the tender terms			
14	Technical and Commercial Proposal separately sealed in two envelopes and selled in one enclosure.			
15	Undertaking in the technical proposals that the Bid Security has been submitted or with the Commercial Proposal.			
16.	API 5L valid Certificate copy attached with the technical proposal.			
No No ma	te: n-availability of the above information/documents, or incomplete/incorrect statement on the y result in rejection of the bid at / after the bid opening.	his checl	clist	
In a	all circumstances SSGC tender terms will prevail.			
Bide	ders Authorized Representative  OF PROCUREMENT  DEPT.			

### Inland Coated Pipe Transportation Charges from Port to Final Destination:

With reference to clause 16 (iv), special terms & conditions, section 2(b), of subject tender, regarding evaluation criteria & comparison of bids, for computing landed cost of coated line pipes (engineering goods) in terms of SRO 827(1)/2001 is as follows:

- 16" = 455 PKR per meter.
- 18" = 580 PKR per meter.
- 20" = 555 PKR per meter.



Recommended Practice for Truck
Transportation of Line Pipe

PAOSA.

### Recommended Practice for Truck Transportation of Line Pipe

#### 1 Scope

The recommendations provided herein apply to the transportation of coated or bare pipe in size 2 3/8 in. (60.3 mm) and larger, on trailer.

#### 2 Purpose

This recommended practice was developed and exist, to minimize transportation damage, including transit fatigue for bare and coated line pipe of size 2 3/8 in. (60.3mm) and greater.

#### 3 **Definitions**

#### 3.1

bearing str

The load bear pnage separating the pipe load from the trailer bed.

#### 3.2

carrier

The party contracted to a t the pipe.

#### 3.3

end user

The party using the pipe after it has en delivered and unloaded.

3.4
overhang
The distance from the rearmost bottom bearing strip on the trailer bed to the rear end of the bottom layer of pipe.

3.5
purchaser
The party contracting the shipper.

3.6
separator strip
The dunnage used for separating layers of pipe in the load where pipe layers are not nested.

#### 3.7

#### shipper

The party contracting the carrier.

#### Additional information

The purchase order shall indicate which of the following provisions apply.

Items that apply if agreed between shipper, purchases, and party responsible for unloading the pipe:



- 1) use of containerized or unitized loads (see section 7).
- b) items that apply if agreed between the shipper and purchaser:
  - 1) alternate maximum overhang (see section 10).
  - 2) use of padded forks to handle bare pipe (see 11.7)
  - 3) exclusion of ropes surrounding pipe (see 12.2.3).
- c) items that apply if agreed between the shipper and end user:
  - 1) use of metal chains or cables to tie-down loads (see 13.2 and 14.3).
- d) items that apply as prescribed unless otherwise agreed by the purchaser:
- 1) longitudinal weld seam orientation to prevent pipe-to-weld contact and weld to steel banding strap contact (see 12.1.3).

#### 5 Trailer Condition

- Tused to ship be reasonably free of foreign material and debris, particularly those ardness that could damage pipe during shipment and handling or that could contribute to movement of the pipe during shipping.
- 5.2 Where steel uprights or stakes are used, they shall be adequately padded.
- No metal projections of trailers such as bolts, nails or hooks that may come in contact 5.3 with pipe during loading or trar e permitted.
- 5.4 When transporting comprevent stones and other debris from impose.

  6 Types of Trailers

  One of the following types of trailers shall be used.

   flat bed trailers (including stretch trailers),

   arch trailers (sometimes referred to as aluminum railers),
  pole trailers (see 14.0)

   step bed trailers. When transporting coated pice in truck and trailer shall be equipped with mud guards to

- By agreement between the shipper, purchase and the party responsible for unloading the 7.1 pipe, containerized or unitized loads are permissible.
- 7.2 Upon consultation with purchaser and party unloading the pipe, the shipper shall determine the necessity of bottom bearing strip considering the unloading party's ability to unload the pipe.
- The shipper shall determine the necessity of separator strip ensuring the unitized load is 7.3 stable within the container and metal to metal contact is not possible except between adjacent pipe and as permitted by 7.2.



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# 8 Bearing Strips

#### 8.1 Number

The minimum number of bearing strip positioned on the truck bed for pipe shall be per Table 1.

Table 1- Bearing strips minimum requirement by random length and overhang

	Minimum Number of Bearing Strip			
Overhang	40 ft (12m) Random Lengths	60 ft (18m) Random Lengths	80 ft (24m) Random Lengths	
Greater than 3 times Nominal Diameter	4 bearing strips	6 bearing strips	8 bearing strips	
Less than or egal to 3 times Nominal Diameter	3 bearing strips	5 bearing strips	7 bearing strips	

# 8.2 Positioning

- **8.2.1** If an odd number of hearing strip are used, one bearing strip should be positioned in the approximate center of the lad and other spaced appropriately.
- 8.2.2 Bearing strip shall be solidly attached where practical across the width of the trailer deck and shall be spaced to accommodate a soling and unloading by forklift. The maximum spacing of bearing strip shall not exceed 10 ft (3m) excluding the gap in stretch trailers.
- 8.2.3 The front most bearing strip should be olded under the pipe near the front of the trailer.

### 8.3 Blocking and Shimming

- 8.3.1 Wooden blocking, where required because of piven trailer sides, should be positioned between trailer sides and stakes, and firmly attached to stake
- **8.3.2** Blocking used for leveling shall be firmly attached strip.
- 8.3.3 Bottom bearing pieces may require shims to ensure that the key is in contact with all bottom pieces.
- 8.3.4 Side protection shall be provided for pipe shipped in trailers where the irranay contact the sides of the trailer.

### 8.4 Dimensions

The thickness of the bearing strips shall be sufficient to prevent pipe from touching the bed or protrusions thereon and to allow sufficient spacing to accommodate handling with forklifts. Bearing strip thickness shall not exceed bearing strip width.



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#### 8.5 Materials

- Bearing strips shall be wood appropriate strength, dimensions and condition to properly support the load for which it is intended. Bearing strips with rounded corners, with splits or showing signs of rotting shall not be used.
- Bearing strips shall be free of metallic protrusions (nails, staples, steel shavings, etc.) that could come in contact with the pipe.

#### 9 **Separator Strips**

#### 9.1 Location of Separator strips

Separator strips shall be located so as to be in approximate vertical alignment with the bottom Efforts shall be made to move the shorter pieces on the load such that the location sips minimizes the instances of separator strips over an unsupported pipe of the separa section.

#### 9.2 Materials

- 9.2.1 Separator strips shall be wood appropriate strength, dimensions and condition to properly support the load for which it is rended. Separator strips with rounded corners, with splits or with signs of rotting shall not be used
- 9.2.2 Separator strips shall be free chillic protrusions (nails, staples, steel shavings, etc.) that could come in contact with the pipe.

10 Overhang
If agreed between the shipper and purchase, Marinum allowable overhang limits may be (C) defined.

#### 11 Handling Equipment

- and padded forklifts) that Handling equipment (including end hooks, vacuum lifts prevents the pipe or coating from having contact with brass, copper or the, or any other copper alloy shall be used.
- 11.2 If steel end hooks are used to handle the pipe, they shall be designed to prevent pipe end damage and shall be lined with a cushioning material such as rubber, plascomposite, or aluminum in the area where the hood contacts the pipe end bevel and land face.
- 11.3 End hooks shall have sufficient width, depth, and configuration to fit the internal curvature of the pipe.
- End hooks (excluding the bearing area) and adjacent cables shall have sufficient protection with a durable non-metallic padding to prevent damage to pipe ends or surfaces.



Page 5 of 8

- 11.5 Lifting shall be carried out in such a manner that impact loading sufficient to cause local denting or out-of-roundness of pipe body, pipe ends, adjacent pipe or other objects does not occur.
- 11.6 if slings are used for pipe handling, they shall be made of a non-metallic material, such as nylon banding and shall have sufficient strength to safely support the load. The slings shall also be placed in positions to maximize load stability and to prevent injury or damage to personnel, pipe and coatings.
- 11.7 When forklifts are used for handling coated pipe, fork tips and claps shall be properly padded to protect the pie being handled and adjacent pipe in the load or stack. If agreed between the shipper and purchaser, padded forks, clamps, etc. shall also be used to handle bare pipe.

# 12 Positioning and Loading of Pipe with Filler Metal

# 12.1 SAWL COWL Pipe

- 12.1.1 Pipe with filler med weld seams shall be positioned or padded in such a manner that the weld does not contact either the blocking or adjacent pipe.
- 12.1.2 When horizontal bearing sips are used, the weld seam shall be positioned at  $45^0$ ,  $\pm 5^0$ , from vertical.
- 12.1.3 When the pipe is nested, unless of kerwise agreed to by the purchase, pipe with a straight filler metal weld seam shall be positioned in order to prevent pipe-to-weld seam contact, weld-to-bearing strip contact, weld-to-trail contact. Unless otherwise agreed to by the purchaser, weld seams shall be oriented to avoid contact with steel produing straps.

#### 12.2 SAWH & COWH Pipe

- 12.2.1 As helical seam pipe (spiral weld) has a weld seam but winds around the pipe, special care shall be taken to prevent contact with the seam.
- 12.2.2 Except as permitted by 12.2.3 and unless provisions exist the prevent metal contact between the weld seams of adjacent pipes, bare and coated spiral water pipe shall have at least four ropes of sufficient diameter and quality to prevent metal-to-metal contact and coating damage surrounding each joint of pipe prior to loading.
- NOTE The type of coating should be considered in determining whether of the use ropes. Ropes should not be used for polyethylene or polypropylene coating due to the likelihood of coating damage.
- 12.2.3 If agreed between the shipper and purchaser, ropes surrounding each pipe are not required (e.g. for transport over short distances, polyethylene or polypropylene coatings, etc).



Page 6 of 8

12.2.4 Where possible, spiral pipe on the bottom layer should be rotated while loading to prevent weld seams from contacting bottom bearing strips. Where this is not possible, sufficient padding shall be used on the bottom strips to protect the weld seam.

### 13 Banding and Tie-down

- 13.1 The quantity of nylon bands (or equivalent) to secure the cargo on the trailer shall be determined according to their safe working load along with the weight and length of the cargo to be secured.
- 13.2 If agreed between shipper and end user, metal chains or cables may be used for tiedowns. In this case, sufficient padding to prevent damage shall be used to separate the chains from direct contact with the pipe.
- 13.3 It is the responsibility of the carrier to choose the number and location of tie-downs to ensure pipes are adequately secured to the trailer in accordance with all governmental regulation ensuring load shifting and subsequent damage to the pipe load is minimized.

#### 14 Pole Trailers

#### 14.1 General

When pole trailers are used to transport pipe, the sections of this document addressing bearing and separator pieces (Section 7 thro 2 Section 10, and Section 13) do not apply.

#### 14.2 Cradles

- 14.2.1 At least one wood cradle at each end of the tope load shall replace bearing and separator strips.
- 14.2.2 Cradles shall be situated within metallic bunks anached to the trailer and contoured to the loaded pipe diameter.
- 14.2.3 When transporting coated pipe, the contact area of the create shall be covered with clean cushioning material such as carpet remnants or rubber.
- 14.2.4 The nominal cradle width of each cradle shall be at least 6 in (150 nm)
- 14.2.5 Consideration should be given to wider cradles or additional contours with a transporting pipe with nominal lengths greater than 60 ft (18m).

### 14.3 Strapping

14.3.1 If agreed between shipper and end user, metal chains or cables may be used for tie-downs. In this case, sufficient padding to prevent damage shall be used to separate the chains from direct contact with the pipe load.



14.3.2 It is the responsibility of the carrier to choose the number and location of tie-downs ensure pipes are adequately secured to the trailer in accordance with all governmental regulations ensuring load shifting and subsequent damage to the pipe load is minimized.

#### 14.4 Overhang

#### 14.4.1 General

The distance from the rear load bearing contour to the pipe end (overhang) shall be minimized giving due consideration to end swing from truck movement.

#### 14.4.2 Protection during Transport

I tractors shall be equipped with fenders and mud flaps to sufficiently protect pipe pact damage from gravel and other debris flying up from the roadway. and coating

#### 15 Loading Diag

nstrate compliance to this recommended practice shall be as per Loading diagrams which of API standards.

16.1 Purchaser Access

The purchaser's representative (or inspector) shall have access to loading and unloading facilities with reasonable advance notice of loading and up ng activities.

#### 16.2 **Damaged Pipe**

- 16.2.1 Unless authorized by the purchaser, damaged pipe and not be transported. If damaged pipe is detected on board, it shall be noted on the bill of lading nd the pipe marked by the carrier (or the inspector) to indicated pre-transit damage.
- be promptly reported 16.2.2 Pipe damage detected during transportation or unloading show (with photographs if possible) to the owner and the party responsible fo the transportation, appropriately marked and set aside for further disposition.



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**Recommended Practice for** 

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Shall: As used in a standard, "shall" denotes a minimum requirement in order to conform to the specification.

Should: As used in a standard, "should" denotes a recommendation or that which is advised but not required in order to conform to the specification

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Figu	Cantline Stowage.

#### Introduction

This recommended practice (RP) shall become effective on the date printed on the cover but may be used voluntarily from the date of distribution. This RP is under the jurisdiction of the API Subcommittee on Standardization of Tubular Goods. Line pipe shipments on inland and marine waterways should be designed to assure that the pipe will arrive at the destination undamaged. The minimum mandatory rules in force for such shipments shall be followed. The rule of governing regulatory agencies shall be considered as basic, with the recommendations given herein as supplementary thereto. These supplementary recommendations are the result of line pipe shippers' experience that damage to the pipe during shipment can consist of three principal types as follows

- a) End Damage—End damage to pipe can occur during loading and unloading, or from a longitudinal load shift against allyhead or an adjacent pipe.
- b) Abrasions or eet ng—These result from a rubbing or pounding action against some protrusion such as the weld reinforcement of the diacent pipe. This condition may result in initiation of fatigue cracks at the damaged areas during transit.
- c) Longitudinal Fatigue Cr (s) These are initiated in the pipe by vertical cyclical forces with no apparent local abrasion or denting. Fatigue cracks result from a combination of static and cyclic stresses produced by the weight of upper layers of pipe and or other cargo giving a static load, and a cyclic load caused by the vertical movement.

The third edition of this RP incorporate nevisions in light of an identification of inaccuracies in the equations for static load stress, which were derived by numerical in thods decades ago. These inaccuracies were discovered when finite element analysis methods were used to chack the equations. API is working to update and revise these equations for a future edition. Notwithstanding these inaccurages where have been no confirmed transit fatigue failures reported in pipe loaded in accordance with previous editions of this document.



#### Recommended Practice for Transportation of Line Pipe on Barges and Marine Vessels

#### Scope

The recommendations in this document apply to transportation of API Specification 5L steel line pipe by ship or barge on both inland and manne waterways, unless the specific requirement of a paragraph in this document references only marine or only inland waterway transport. Inland waterways are defined as those waterways with various degrees of protection, such as rivers, canals, intracoastal waterways, and sheltered bays. These waterways can be fresh or saltwater but are usually traversed by barges. Marine waterways are defined as waterways over open seas r no protection from wind, current, waves, and the like. These areas are normally traversed by sea-going recommendations apply to steel line pipe that has 2 3/a-in, outside diameter (OD) and larger. vessel

ations cover coated or uncoated pipe, but they do not encompass loading practices designed to These record on damage. These recommendations are not applicable to pipe-laying vessels or supply protect pipe coating it in damage. These recommendations are not applicable to pipe its invessels. They must be considered as supplementary to the existing rules of governing agencies.

plemental to shipping rules for the convenience of purchasers and manufacturers in These recommendations a pging practices and are not intended to inhibit purchasers and manufacturers from the specification of loading and s using other supplemental loa hipping practices by mutual agreement.

#### 2 Acronyms, Abbreviations an

specified outside diami **GMAW** gas metal arc welding OD outside diameter SAW submerged arc welding specified wall thickness

#### 3 General Requirements

#### 3.1 Vessel Condition

Oong aterial likely to cause either physical Cargo compartments should be reasonably free from any foreign objects damage, contamination, or chemical reaction with the pipe

The bilge pumping system shall be in working order to remove standing water fi

#### 3.2 Shipping Space

ance of 1 ft must Pipe may be laid longitudinally or athwart the vessel to make the best use of available spa of hatchways be left between the ends of the pipe and the vessel (or other cargo) to facilitate unloading. Dime should be large enough to allow the pipe to pass in a horizontal position unless special precault ken.

#### 3.3 Handling Equipment

When end hooks are used for handling pipe, they shall be designed to prevent end damage and should be lined in the area of land (bevel face) contact with a cushioning material (e.g. a nonmetallic material such as rubber or a metallic material such as aiuminium, but brass or copper shall be excluded). These hooks shall also have sufficient width and depth to fit the internal curvature of the pipe. Rubber aprons should be attached to pipe hooks to protect the pipe ends unless adequate end protectors are used. Lifting shall be carried out in such a manner that impact loads sufficient to



cause local denting or out-of-roundness of pipe body or pipe ends will not occur. When the pipe is loaded by loose lifts, all necessary precautions shall be taken during loading and unloading to prevent surface or other damage to the pipe

#### 3.4 Stacking Arrangement

#### 3.4.1 Stowage

When stacking, one should consider the maximum weight that the bottom layer of pipe can withstand before deformation will occur. Short lengths should be placed on the top of the stack.

Pipe in the dot of a vessel during marine shipments shall be cantline stowed.

Cantline storage small be defined as stowage without separator strips (e.g. nesting or pyramid fashion) but including wood blocking even other tier on both sides of the hull as illustrated in Figure 1. If the top tier is a partial load, separator strips at an be sed to secure additional blocking, which is used to secure the top tier of pipe.

For inland waterway transit the may be cantline stowed, or separator strips may be used between successive tiers of pipe.

Loaded pipe shall not contact the side or bottom of the vessel. However, each length of pipe shall be in contact throughout its entire length with all a proint pipe or blocking, and precautions should be taken to minimize any lateral movement

Pipe with filler metal weld seams (SAW and SW W) shall be positioned or padded in such a manner that the weld does not contact the blocking or adjacent put when horizontal stripping (permissible only for transportation on inland waterways) is used to load pipe with lor itudical seam welds made with filler metal (SAW and GMAW), the weld seam shall be positioned at  $45^{\circ}$ .  $\pm 5^{\circ}$ , from vertical When nested, pipe with longitudinal seam welds made with filler metal (SAW and GMAW) shall be positioned with the least at 0 ° (in other words, 12 o'clock)

#### 3.4.2 Loading on Deck

The pipe shall be placed on a horizontal surface, and the building of a wooder floor is recommended to eliminate contact of the pipe with metallic protrusions and to compensate for so field planes. There shall be a sufficient number of stanchions for the pipe to rest against. If the stanchions are metallic, and or rubber strips shall be interposed between them and the pipe. Stowing cables or chains shall be isolated any contact with pipe through a protection medium such as rubber strips. During transportation, the tension of stopping cables or chains should be checked daily.

#### 3.5 Bearing and Separator Strips

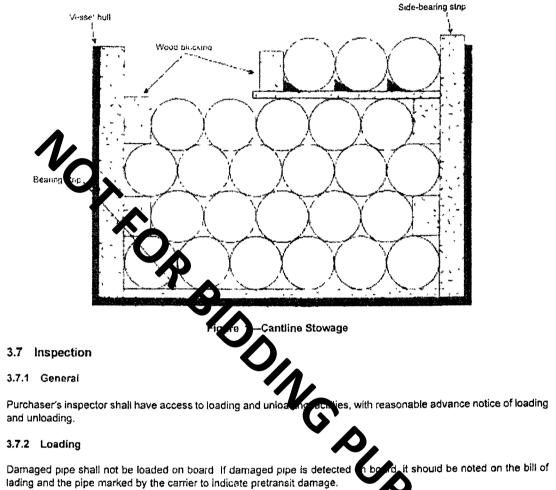
Wood-bearing and separator strips shall be a minimum size of 1 in  $\times$  2 in. Metallic-bearing strips are prohibited. Bearing strips shall be used to keep the bottom layer of pipe above the hold bottom. The spacing of these strips should be as small as necessary but no greater than 4 ft and at least four bearing strips per pipe at commust be used unless otherwise agreed as allowed in Section 4. For inland-waterway shipments, horizontal separations may be used when the pipe is not nested. These horizontal strips should be located directly above the bottom obtains strips.

Additional blocking, if necessary, shall be used to minimize lateral movement of pipe.

#### 3.6 Side Protection

To prevent stress concentrations, wooden side-bearing strips or wood blocking shall be provided to prevent contact with the hull of the vessel or any protrusion.





n board, it should be noted on the bill of lading and the pipe marked by the carrier to indicate pretransit damage.

#### 3.7.3 Unloading

Pipe damage detected during transit or unloading should be promptly reported to the carri or manufacturer and appropriately marked and set aside for further inspection.

#### 4 Transit Fatigue

Transit fatigue has been reported in pipe with diameter-to-thickness ratios as low as 12.5 and in line pipe grades from Grades B through X70 [1]. Cracks have been found at three general locations: along the edge of submerged-arc welds; in the pipe base metal at areas of denting, metal-to-metal contact, or abrasion; and at the pipe ends.

The variables that influence transit fatigue include the magnitude of the static stress, the number and magnitude of the cyclic stresses, the size of the contact area, the nature of the bearing surface, the degree of surface damage, and the ambient environment. Contact with hard surfaces, such as nailheads, bolts or other debris, steel stanchions, wire



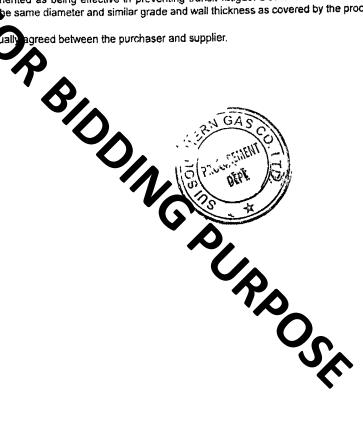
cables, and so forth, can lead to transit fatigue even when stresses are properly controlled. Corrosive atmospheres such as might be encountered in humid coastal or industrial areas can accelerate fatigue damage.

Transit fatigue generally causes multiple cracks emanating from the area of surface contact. A distinctive feature of transit fatigue is that cracks will usually be found at both the inside and outside surfaces.

In order to minimize the possibility of fatigue damage on pipe having a D/t ratio of 50 or more, consideration shall be given to both the static and dynamic forces that act upon the pipe during transportation. The dynamic stress induced in the pipe is dependent on the height of the waves, the speed of the vessel, the length of the vessel, the response of the vessel to the water surface, and the location of the pipe along the axis of the vessel.

baded in accordance with loading procedures that minimize risk of transit fatigue. The procedures may ntems below. be based or

- ic and dynamic stresses, number of stress cycles, and other variables that influence fatigue a) Analyses of
- b) Practices that car be documented as being effective in preventing transit fatigue. Documentation shall include be same diameter and similar grade and wall thickness as covered by the procedure. shipping records for pipe
- c) Other practices that are moually



#### **Bibliography**

[1] T.V Bruno, "How To Prevent Transit Fatigue To Tubular Goods," Pipe Line Industry, July 1988, pp 31 to 34

NOT ROP BIDDING BURBOSK

ROSSING MALIR EXPRESSWAY **ROAD** 

**DELIVERY SCHEI** 

FOR

3LPE PRE-COATED LINE PIFF

Note:

Bids are to be invited from the single manufacturer who have facility for both linepipe and 3 LPE coating application.







PLANNING & DEVELOPMENT DEPARTMENT

### SUI SOUTHERN GAS COMPANY LIMITED

#### SCHEDULE OF REQUIREMENTS FOR 3LPE PRE-COATED PIPE

ANNEXURE-I

TENDER ENQUIRY NO. \_\_

# PIPELINE CROSSING MALIR EXPRESSWAY ROAD AT KM 540+385

This Schedule of Rechirement for the 3LPE Pre-Coated line pipes in various sizes as specified herein, and shall conform to the perifications attached as Annexure – III & IV of this tender enquiry and also specified herein this Schedule of Rechirements:

Bidders may submit technical proposal for the items basis with Line pipe and Coating facility at the same manufacturer location. For any case, Bidder must comply with all Mandatory requirements.

#### **LINE PIPE ITEMS**:

S. No.	Description	Qty. (Meters)	Index No.
1	Pipe - API 5L Grade 'X60' (3LPE Pre Loated) PSL 2- 16" Dia. x 0.375" Wall Thickness API 5L X60 ERW/SAWH/LSAW	600	01-32-348-3
2	Pipe - API 5L Grade 'X60' (3LPE Pre-Coated) SL 2  18" Dia. x 0.406" Wall Thickness, API 5L 760  ERW/SAWH/LSAW	612	01-32-449-3
3	Pipe - API 5L Grade 'X70' (3LPE Pre-Coated) PSL 2  20" Dia. x 0.344" Wall Thickness, API 5L X70  ERW/SAWH/LSAW	P.036	01-32-392-3







#### PLANNING & DEVELOPMENT DEPARTMENT

#### SUI SOUTHERN GAS COMPANY LIMITED

## DELIVERY SCHEDULE & DUMP LOCATION FOR 3LPE PRE-COATED LINEPIPE

ANNEXURE-II

TENDER ENQUIRY NO.

# PIPELINE CROSSING MALIR EXPRESSWAY ROAD

#### **DELIVERY SCHEDULE:**

The above quantities of 3LPE Pre-Coated Linepipe are to be shipped in accordance with the following delivery schedule

- For FOB contracts 120 days after the date of opening of letter of credit.
- For C&F contracts: 30 days after the date of opening of letter of credit.
- For FOR contracts; Delicary to start from 121 days after the date of opening of operative letter of credit/placement of tarchase orders and complete order quantity of line pipe to be delivered in 30 days by the dayufacturer.

#### **DUMP LOCATIONS:**

Delivery of Line pipe will be at following in dump locations quantity wise.

Item #	Description	Qty. (Meters)	SSGC's Pipe Dump Locations
1	Pipe- API 5L- Grade X-60- 3 LPE- Pre-Zould- PSL-02- 16" Dia. x <u>0.375</u> " Wall Thickness, LPL X60 ERW/SAWH/LSAW	600*	KM 540+385
2	Pipe- API 5L- Grade X-60- 3 LPE- Pre- Coated- PSL-02- 18" Dia. x <u>0.406</u> " Wall Thickness, API 5L X60 ERW/SAWH/LSAW	612*	(Down stream By- pass assembly- Near Memon goth)
3	Pipe- API 5L- Grade X-70- 3 LPE- Pre- Coated- PSL-02- 20" Dia. x <u>0.344</u> " Wall Thickness, API 5L X70 ERW/SAWH/LSAW	630	

<sup>\*</sup>The quantity may vary by +/- 1% at the time of placement of purchase order

#### Note:

The above Pipe Dump Locations (PDL) are tentative. The joint site visit of dump locations will be arranged along with bidders by SSGC, if required prior to submission of the bid.







## SUI SOUTHERN GAS COMPANY LIMITED

# SCHEDULE OF REQUIREMENTS DESCRIPTION FOR 3LPE PRE-COATED PIPE

ANNEXURE-III

PLANNING & DEVELOPMENT DEPARTMENT

TENDER ENQUIRY NO	
-------------------	--

The requirements outlined below, as well as those specified in the technical specification, shall govern the execution of this purpose order. The below requirements shall be fulfilled by the bidder with their product evaluated values which shall compliant with standards.

S. No	Description	Line Pipe Spec No. LPI-SPE-GE-0001
01	Material	API 5L X60
02	PSL Type	PSL 2
03	Type of Pipe	Welded
04	Type Of Welding	ERW/ SAWH/ LSAW
05	Size	16" OD , 18" OD & 20" OD
06	Schedule/WT	0.375", 0.406" & 0.438"
07	Pipe Ends	Bevel Ends
08	Mill Test Pressure	To be filled by the Pint
09	Hydrostatic Pressure Test in the field	To be filled by the Bidder-
10	Elongation Value	To be filled by the Bidder=
11	Pipe Burst Test	Burst Test to be Performed on 03 Line type (01 from 16", 01 from 18" & 01 from 20") and its cost shall be in line ed in the whole bid Cost. This limit is exclusive of re-tests necessary due to failure of any specimen.
12	Pipe DWT Test	DWT Test to be Performed on 03 Line pipe om 16", 01 from 18" & 01 from 20") and its cost shall be included in the woole bid Cost. This limit is exclusive of re-tests necessary due to fail wooleany specimen.
13	Inspection Checklist	Bidder shall fulfill as per Appendix- A

S. No	Description	3 Layer Polyethylene Coating Spec No. LPI-SPE-GE-0100
14	Indentation Value	To be filled by the Bidder=
15	Coating Resistance	To be filled by the Bidder=
16	Cathodic Disbonding	To be filled by the Bidder=
17	Peeling Resistance	To be filled by the Bidder=
18	Elongation	To be filled by the Bidder
19	Inspection Checklist	Bidder shall fulfill as per Appendix-B

-Atthor

Spec. No. LPI-SPE-GE-0001
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# SUI SOUTHERN GAS COMPANY LIMITED (SSGC)

TECHNICAL SPECIFICATION FOR LINE PIPE



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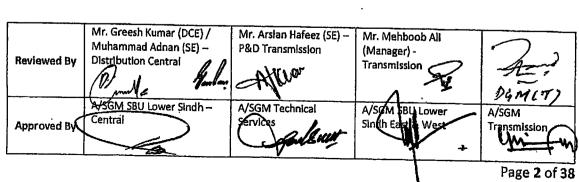
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#### 1 GENERAL

#### 1.1 Scope

The purpose of this specification is to describe the minimum functional and technical requirements for Bare Line Pipes suitable for natural gas transportation.

- 1.1.1 Line pipe shall meet the requirements of API specification 5L, except where this technical specification sets out more stringent or additional requirements.
- 1.2 Definitions

PURCHASER means OWNER and MANUFACTURER means CONTRACTOR/SUPPLIER/BIDDER. This definition shall apply throughout this specification.

- 1.3 Erro or Omissions
- 1.3.1 The review and comment by the Owner on any manufacturer's or its manufacturer's drawings, procedures or documents shall only indicate acceptance of general requirements appears and shall not relieve the Manufacturer of its obligations to comply with the requirements of his specification and other related parts of the contract documents.
- 1.3.2 Any errors or omission, noted by the manufacturer in this Specification shall be immediately brought to the attention of the Owner.
- 1.4 Deviations

All deviations to this Specification, the Specifications or attachments shall be brought to the knowledge of the owner in the side Albdeviations made during the procurement, design, manufacturing, testing and inspection shall be with written approval of the owner prior to execution of the work. See deviations shall be shown in the documentation prepared by the manufacturer.

- 1.5 Conflicting Requirements
- 1.5.1 In the event of conflict, inconsistency or ambiguity between the contract scopes of work, this Specification, National Codes & Standards reference in this Specification or any other documents, the manufacturer shall refer to the Purchaser whose decision shall prevail.

1.5.2 Some requirements in this specification may be modified by specific requirements in the Purchase Specification. In case of conflict, the specific requirements supposed this specification.

Reviewed By.	Mr. Greesh Kumar (DCE) / Muhammad Adnan (SE) – Distribution Central	Mr. Arsian Hafeez (SE) – P&D Transmission	Mr. Mehboob Ali (Manager) - Transmission	S4m17)
Approved By	A/SGM 5BU Lower Singh -	A/SGM Technical	A/SEM SEU Lower	A/SGM
	Central	Services	Sindh East & West	Transmission

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#### **Reporting Procedure**

- 1.6.1 A reporting and documentation system shall be agreed between the Purchaser and the manufacturer for the status of procurement, manufacturing, inspection, testing and shipment of the equipment/material to be supplied under this specification.
- 1.6.2 Manufacturer shall provide all reports and summaries for production performance and testing operations in conformance with a manufacturing schedule approved by Purchager.
- 1.6.3 Daily, ekty and monthly run summaries of all major aspects of the production process shall be rovilled as reports to the Purchaser.
- 1.6.4 All such report shall include the following:
  - Record of production material
  - Material type, name and composition
  - Pipe produced/pip e ted.
  - Average length.
  - Coil number/heat number is

Record of pipe dispatched.

Total quantity produced.

Laboratory test results

1.6.5 Further, all production and testing records shall be made available for inspection by the Owner at any time upon request.

PREFVIATIONS/SYMBOLS

Words and expressions like below shall have

ABBREVIATION	<u>NAME</u>	0
ANSI	American National Standard Institute	- AV
API	American Petroleum Institute	
ASME	American Society of Mechanical Engineers	,
ASTM	American Society of Testing and Materials	

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	Spec. No. LPI-SPE-GE-0001 Rev. 00
ABBREVIATION	<u>NAME</u>
AWS	American Welding Society
°C	Celsius (Degree)
DIN	Deutsches Institute für Normung", meaning "German institute for standardisation".
DWT	Drop Weight Tear Test
EN	European Standard
	Electric Resistance Welded
	Fahrenheit (Degree)
Gr.	Grade
HFW	ut guency Welded
ISO	International Organization for Standardization
Max	Maximum
Mn	Manganese
Mo ·	Molybdenum
МТС	Material Test Certificate
OD	Outside Diameter
PE Coating	Polyethylene Coating
PQT	Procedure Qualification Test
PSL	Product Specification Level
QA/QC	Quality Assurance/Quality Control
RT	Radiographic Testing

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	Spec. No. LPI-SPE-GE-	0001 Rev. 00
ABBREVIATION	<u>NAME</u>	
SAW	Submerged Arc Welding	
SAWH	Submerged Arc Welding Helical	
SAWL	Submerged Arc Welding Longitudinal	
A	Seamless	
SIMI	Specified Minimum Yield Strength	
SOR	Schedule of Requirement	
STD	s'ano rd	
UV	Ultra de let	
UT	Ultrasonio e ting	

### 3 CODES, REGULATIONS AND STANDARDS

- 3.1 All line pipe supplied shall meet the requirements of API Specification 5L as amended or supplemented by this Specification, codes Standards and Specifications of this Clause and any additional requirements as may be stated on the accompanying purchase order.
  - ANSI B31.8: Gas Transportation Piping System
  - API SPEC. 5L: Specification for Line Pipe (forty-sixth edition.
  - API STD 1104: Standard for Welding Pipelines & Related Facilities
  - ISO 9000/9001/9002: Quality Systems
  - API RP 5L5: Recommended Practice for Marine transportation of line pip
  - API RP 5LW: Recommended Practice for Transportation of Line Pipe on Pages & Marine Vessels
  - ASTM A370: Mechanical Testing of Steel Products
  - ASNT-SNT-TC-IA: Personnel qualification and certification in non-destructive testing.
  - ASTM A751: Standard Test Methods for Chemical Analysis of Steel Products
  - API 5L 1: Recommended practice for Rail Road Transportation of Line Pipe.

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- API 5LT: Recommended practice for truck transportation of Line Pipe.
- ASME SEC V: Non Destructive Examination

#### 4 GENERAL REQUIREMENTS

- 4.1 All inspection and certification may be undertaken by a third party certification body approved by the Owner. In addition, the Owner may appoint its representative or a third party inspector for certification, inspections and tests which will be carried out by manufacturer during the production of line pipe. Owner shall also require 3rd party inspection Certification for the steel which will be used for the manufacturing of pipe.
- 4.2 Satisfactory test results of the material, conducted prior to the manufacturing, shall govern the manufacturing of the pipes. In case of 3 continuous unsatisfactory test results or concompliance of the agreed production process, purchaser may ask the manufacturer to stop the production and proceed with additional heat analysis, ultrasonic tests are inspections. The production may continue after the satisfactory results.
- 4.3 The Supplier shall supple ix copies of inspection and MTC to the Purchaser after placement of order and before manufacturing process. The Purchaser has right to reject the consignment if bidder has a med to provide MTC.
- 4.4 Pipe Supplier/Manufacturer shall to ide details for the source of steel (raw material) manufacturer along with their MTC and quality certificates such as ISO 9001, etc.
- 4.5 Manufacturer shall submit Manufacturer recedure Specification (MPS) and Inspection Testing Plan (ITP) sample document along and PID. Further, approved MPS & ITP will submit prior to start of production of pipe for a secure review and approval.
- 4.6 The pipe supplied by the manufacturer shall be in a expended type.

### 5 PROCESS OF PIPE MANUFACTURING

5.1 Process of Manufacture

The process of Pipe manufacturing shall be either seamless, submound are welded (SAW) or electric resistance welded (ERW) or high frequency electric includion welded (HFEIW) as mentioned in the schedule of requirement.

5.1.1 Manufacturing Procedure Specification (MPS)

The manufacturer shall submit a written manufacturing procedure to the Owner at least two (02) weeks prior to the commencement of production. Production shall not

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PROCUREMENT

commence before the Owner has reviewed and noted the Manufacturing procedure. The manufacturing procedure shall include the following information:

- 5.1.1.1 Manufacturer shall also provide details of manufacturing type of pipe (either it is ERW, SAWL and SAWH).
- 5.1.1.2 Details of steel making process including source of steel, proposed steel composition, and steel making quality control.
- 5.1.1.3 Description of plate, coil or strip preparation including edge trim and shape.
- 5.1.1.4 Location and details of welding equipment including post weld heat treatment;
- 5.1.1.5 Details of waiting procedure, including WPS and PQR, and qualification tests.
- 5.1.1.6 The number, type and location of non-destructive testing units. Detailed information shall be provided by panufacturer to explain the structure and performance of the equipment to be unadato inspect the weld seam fully after hydrostatic test. Information shall include calibration methods, reference Standards, calibration frequency and speed. Attach in shall be given to standards that apply to manual ultrasonic inspection for procedures or automatic indication evaluation.
- 5.1.1.7 Details of hydrostatic test including alibration of test gauges and recorders.
- 5.1.1.8 Bidder/Manufacturer shall confirm cally reduction mill capacity (tonnage).
- 5.1.1.9 A flow schematic of the mill production and inspection systems, along with a description of pipe tracking and identification shall be provided. Details of the methods used to ensure that correctly matching hipe documentation is available at the final inspection bench prior to pipe inspection should also be included.
- 5.1.1.10 Details of handling and loading both within the manufacturing area and for shipment to delivery location.
- 5.1.1.11 Any change in the approved MPS whether a change in steel chamber, steel making, steel rolling and coiling, pipe forming, welding, testing or inspection shall be reported immediately to the Purchaser. The need for change and re-qualification of the MPS shall be reviewed and subject to approval by the Purchaser.
- 5.1.2 Manufacturing Procedure Qualification (MPQ)

A pipe shall be selected by the Owner's Representative/Third Party from the first lot of pipe for each grade, diameter and wall thickness of pipe produced to perform the Manufacturing Procedure Qualification (MPQ) tests. The selected pipe shall be evaluated by all tests and inspections required by this specification and with the additional tests defined below:

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## 5.1.2.1 Visual inspection and checking of dimensions.

### 5.1.2.2 PSL 1 Required Test

Table 1 - Inspection Frequency for PSL 1 Pipe

No	Type of Inspection	Type of Pipe	Frequency of Inspection <sup>e</sup>
1	Heat analysis	All pipe	One analysis per heat of steel
2	Product analysis	SMLS, CW, LFW, HFW, LW, SAW, or COW	Two analyses per heat of steel (taken from separate product items)
3	Tensile testing of the pipe body of weided pipe with D ≤ 48.3 mm (1.900 in.), in Grade L175 or A25	CW, LFW, or HFW	Once per test unit <sup>e</sup> of not more than 25 tonnes (28 tons) of pipe
4	Tensile testing of the pipe body of weided pipe with D ≤ 48.3 mm (1.900 kg), in Grade L175P or A25P	cw	Once per test unit <sup>e</sup> of not more than 25 tonnes (28 tons) of pipe
5	Tennie esting of the pipe body of welder the esting of th D > 48.3 mm (1.900 m.) in Gr de L175 or A25	CW, LFW, or HFW	Once per test unit of not more than 50 tonnes (55 tons) of pipe
6	Tensile testion if the pipe body of welded pipe with > 48.3 mm (1.900 in.), in Grade L1751 or A25P	cw	Once per test unit of not more than 50 tonnes (55 tons) of pipe
7	Tensile testing of the pobody of seamless pipe	SMLS	Once per test unit of pipe with the same cold- expansion ratio a
8	Tensile testing of the pipe od of welded pipe in grades higher that Grade L175 or A25	COW	Once per test unit of pipe with the same cold- expansion ratio <sup>a</sup>
9	Tensile testing of the longitudinal or helical seam weld of welded pipe with $D \ge 219.1 \text{ mm}$ (8.625 in.)	FW, LW, SAW, or	Once per test unit of pipe with the same cold- expansion ratio <sup>a,b,c</sup>
10	Tensile testing of the coll/plate end weld of welded pipe with $D \ge 219.1 \text{ mm} (8.625 \text{ in.})$	SAWH or COVIH	At least once per 50 coil/plate end welds from pipe with the same cold-expansion ratio a,c,d
11	Bend testing of the longitudinal seam weld of welded pipe with D ≤ 48.3 mm (1.900 ln.), in Grade L175, L175P, A25, or A25P	CW, LFW, or HFW	oce per test unit of not more than 25 connes (28 tons) of pipe
12	Bend testing of the longitudinal seam weld of welded pipe with 48.3 mm (1.900 in.) < <i>D</i> ≤ 60.3 mm (2.375 in.), in Grade L175, L175P, A25, or A25P	CW, LFW, or HFW	Once percest whit of not more than 50 tonnes (55 Jans') are tipe
13	Guided-bend testing of the longitudinal or helical seam weld of welded pipe	SAW or COW	Once per test unit of her more than 50 lengths of pipe of the same grade
14	Guided-bend testing of the coil/plate end weld of welded pipe	SAWH or COWH	At least once per 50 coil/prate e d welds from pipe with the same cold expansion rate of d
15	Guided-bend testing of the longitudinal seam weld of welded pipe with D≥323.9 mm (12.750 in.)	LW	Once per test unit of not more than 50 lengths of pipe of the same grade

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Technical Specification for Line Pipe

			recinical Specification for Line Pipe
			Spec. No. LPI-SPE-GE-0001 Rev. 00
No	Type of Inspection	Type of Pipe	Frequency of Inspection <sup>e</sup>
16		CW, LFW, HFW OR LW	As shown in Figure 6.
17	Hardness testing of hard spots in cold- formed welded pipe	LFW, HFW, LW, SAW, or COW	Any hard spot exceeding 50 mm (2.0 in.) in any direction
18	Hydrostatic testing	SMLS, CW, LFW, HFW, LW, SAW, or COW	Each pipe
19	Macrographic testing of the longitudinal or helical seam weld of welder pipe	SAW or COW	At least once per operating shift plus whenever any change of pipe size occurs during the operating shift; or, if 10.2.5.2 applies, at the beginning of the production of each combination of specified outside diameter and specified wall thickness
20	Metallographic teating of the longitudinal seam weld of wedded pipe	LFW or HFW excluding full- body normalized pipe	At least once per operating shift plus whenever changes of grade, specified outside diameter or specified wall thickness are made; plus whenever excursions from operating heat treatment conditions are encountered
21	Visual inspection	MLS, CW, LFW, HFW, LW, SAW or COW	Each pipe, except as allowed by 10.2.7.2
22	Pipe diameter and out-of-roundness	SAW, O'CO	At least once per 4 h per operating shift plus whenever any change of pipe size occurs during the operating shift
23	Wall thickness measurement	All pipe	Each pipe (see 10.2.8.5)
24	Other dimensional testing	SMLS, CW. W. LW, SAW, or COW	Random testing, with the details left to the discretion of the manufacturer
25	Weighing of pipe with <i>D</i> < 141.3 mm (5.563 in.)	SMLS, CW, LFW, HFM CW SAW, or COW	Each pipe or each convenient group of pipe, with the choice being at the discretion of the mesurfacturer
26	Weighing of pipe with D≥ 141.3 mm (5.563 in.)	SMLS, CW, LFW, HFW, LW, SAW, or COW	Each pipe
27	Length	SMLS, CW, LFW, HFW, LW, SAW, or COW	Each long of pipe shall be measured, except that one made in lengths that are uniform within 30 mm (0.1 ft) need not be individually measured, provided the accuracy of the entire is verified at least once per 4 heart, see sting shift
28	Nondestructive inspection	SMLS, CW, LFW, HFW, LW, SAW, or COW	in accordance with Annex
	-		

The cold-expansion ratio (if applicable) is designated by the manufacturer and is derived using the design and beforeexpansion outside diameter or circumference and the after-expansion outside diameter or circumference and increase or decrease in the cold-expansion ratio of more than 0.002 requires the creation of a new test unit.

b For double-seam pipe, both longitudinal weld seams in the pipe selected to represent the test unit shall be seted.

<sup>c</sup> Pipe produced by each welding machine shall be tested at least once per week.

d Applies only to finished helical seam pipe containing coil/plate end welds.

e "Test unit" is as defined in 3.1.60.

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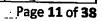
## 5.1.2.3 PSL 2 Required Test

## Spec. No. LPI-SPE-GE-0001 Rev. 00

## Table 2 - Inspection Frequency for PSL 2 Pipe

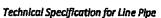
No	Type of inspection	Type of Pipe	Frequency of Inspection <sup>e</sup>
1	Heat analysis	All pipe	One analysis per heat of steel
2	Product analysis	SMLS, HFW, SAW, or COW	Two analyses per heat of steel (taken from separate product items)
3	Tensile testing of the pipe body D ≤ 141.3 mm (5.563 in.)	SMLS, HFW, SAW, or COW	Once per test unit of not more than 400 pipes with
4	Tensile testing of the pipe body D > 141.3mm (5.563in.) and ≤ 323.9 mm (12.750 in.)	SMLS, HFW, SAW, or COW	the same cold-expansion ratio <sup>a</sup> Once per test unit of not more than 200 pipes with the same cold-expansion ratio <sup>a</sup>
5	Tensile testing of the pipe body D > 323-9 mm (12.750 in.)	SMLS, HFW, SAW, or COW	Once per test unit of not more than 100 pipes with the same cold-expension ratio <sup>a</sup>
6	Tensile various of the longitudinal or helical campeld of welded pipe with \$2.5.1 pm (8.625 in.) and ≤ 323.9 mm (12.750 in.)	HFW, SAW, or COW	Once per test unit of not more than 200 pipes with the same cold-expansion ratio a,b,c
7.	Tensile testing of the A git dinal or helical seam weld of well appipe with D > 323.9 mm (12.750 in.)	HFW, SAW, or COW	Once per test unit of not more than 100 pipes with the same cold-expansion ratio a,b,c
8	Tensile testing of the coll/plate end weld of welded pipe with D ≥ 219.1 mm (8.625 in.)	SAV Lor COWH	At least once per 50 coil/plate end welds from pipe with the same cold-expansion ratio a,b,d
9	CVN Impact testing of the pipe body of pipe with specified outside diameter and specified wall thickness as given in Table 22	SMLS, NEW AWAY OF COW	Once per test unit of pipe with the same cold- expansion ratio <sup>a</sup>
10	If agreed, CVN impact testing of the longitudinal seam weld of welded pipe with specified outside diameter and specified wall thickness as given in Table 22	HFW	once per test unit of pipe with the same cold- expansion ratio <sup>a</sup> ,b
11	CVN impact testing of the longitudinal or helical seam weld of welded pipe with specified outside diameter and specified wall thickness as given in Table 22	SAW or COW	Once per last writ spipe with the same cold- expansion ratio
12	CVN impact testing of the coll/plate end weld of welded pipe with specified outside diameter and specified wall thickness as given in Table 22	SAWH or COWH	At least once per 50 coll/plate en Welds from pipe with the same cold-expansion of io ,b,d
13	if agreed, DWT testing of the pipe body of welded pipe with $D \ge$ 508 mm (20.000 in.)	HFW, SAW, or COW	Once per test unit of pipe with the same cold- expansion ratio <sup>a</sup>

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			Spec. No. LPI-SPE-GE-0001 Rev. 00
No	Type of Inspection	Type of Pipe	Frequency of Inspection <sup>e</sup>
14	Guided-bend testing of the longitudinal or helical seam weld of	SAW or COW	Once per test unit of not more than 50 lengths of pipe with the same cold-expansion ratio <sup>a</sup>
	welded pipe		
15	Guided-bend testing of the coil/plate end weld of welded pipe	SAWH or COWH	At least once per 50 coil/plate end welds from pipe with the same cold-expansion ratio a,b,d
16	Flattening test of welded pipe	HFW	As shown in Figure 6
17	Hardney desting of hard spots in cold- formed and destalog	HFW, SAW, or COW	Any hard spot exceeding 50 mm (2.0 in.) in any direction
18	Hydrostatic estin	SMLS, HFW, SAW, or COW	Each pipe
19	Macrographic testing of the longitudinal or helical sear weld of welded pipe	SAW or COW	At least once per operating shift plus whenever any change of pipe size occurs during the operating shift; or, if 10.2.5.3 or 10.2.5.4 applies, at the beginning of the production of each combination of specified outside diameter and specified wall
20	Metallographic testing (or optional hardness test in lieu of	HE @ duding full-body	thickness  At least once per operating shift plus whenever changes of grade, specified outside diameter or
	metallography) of the longitudinal seam weld of welded pipe	m m liza pipe	specified wall thickness are made; plus whenever excursions from operating heat treatment conditions are encountered
21	Visual Inspection	SMLS, HFW, S W, O COW	Each pipe, except as allowed by 10.2.7.2
22.	Pipe diameter and out-of-roundness	SMLS, HFW, SAW, or CON	At least once per 4 h per operating shift plus whenever any change of pipe size occurs during the operating shift
23	Wall thickness measurement	All pipe	sch pe (see 10.2.8.5)
24	Other dimensional testing	SMLS, HFW, SAW, or COW	Ray from testing, with the details left to the
25	Weighing of pipe with <i>D</i> < 141.3 mm (5.563 in.)	SMLS, HFW, SAW, or COW	Each group each convenient group of pipe, with the charte being at the discretion of the manufacturer
26	Weighing of pipe with D ≥ 141.3 mm (5.563 in.)	SMLS, HFW, SAW, or COW	Each pipe
27	Length	SMLS, HFW, SAW, or COW	Each length of pipe state in measured, except that pipe made in lengths and are uniform within 30 mm (0.1 ft) need not be individually measured, provided the accoracy of the length is verified at least once per 4 h per operating shift
28	Nondestructive inspection	SMLS, HFW, SAW, or COW	In accordance with Annex E
9	o sold avancian ratio (if continuits)		

- The cold-expansion ratio (if applicable) is designated by the manufacturer and is derived using the designated before-expansion outside diameter or circumference and the after-expansion outside diameter or circumference; an increase or decrease in the cold-expansion ratio of more than 0.002 requires the creation of a new test unit.
- b Pipe produced by each welding machine shall be tested at least once per week.
- <sup>c</sup> For double-seam pipe, both longitudinal weld seams in the pipe selected to represent the test unit shall be tested.
- $^{
  m d}$  Applies only to finished helical seam pipe containing coil/plate end welds.
- Test unit is as defined in 3.1.60.

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- 5.1.2.4 Guided bend tests on four (4) transverse weld specimens:
  - 2 root bends
  - 2 face bends
- 5.1.2.5 Guided bend tests shall be in accordance with the applicable paragraph of API 5L paragraph 10.2.4.6.
- 5.1.2.6 Macro-graphic examination of the weld on six (6) specimens. The examination shall demonstrate that proper fusion and heat treatment have been obtained through the full thickness of the weld zone.
- 5.1.2.7 Aging tests (strain aging tests) shall be performed on two longitudinal pipe metal speed as follows:
- 5.1.2.8 Of sample shall be heated to 250°C for one hour without any pre-straining the other samples shall be cold strained (20°C) by uniform tension to a deformation of three per ent and then heated to 250°C for one hour.
- 5.1.2.9 Transverse to sile tests (1 specimen) and Transverse Charpy impact tests (3 specimens) shall be machined from each for the aged samples and tested in accordance with sect in 10.2.3 of API 5L. The tensile tests and Charpy impact tests shall meet the minimum requirements of API 5L.
- 5.1.2.10 One longitudinal tensile as sample shall be taken approximately 90 degrees from the weld seam. The tensile test part be conducted in accordance with section 10.2.3 of API 5L.
- 5.1.2.11 One longitudinal Charpy V-notch semple (three longitudinal specimens) shall be taken in the base metal approximately 90 d grees from the weld seam and tested in accordance with ASTM A370. Testing temperature shall be 0°C (32°F). The average energy value of three specimens shall not be less than 35 J/cm² with no single energy value less than 28 J/cm². Test specimens shall be the largest possible Charpy specimen size which can be machined from the pipe with thickness.
- 5.1.2.12 All costs associated with the MPS and MPQ will be at the pub facturer's expenses. Further refer chapter-8, Table-2 & Table-3 of API 5L for an rent process of manufacture and PSLs.

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6 MATERIAL

- Spec. No. LPI-SPE-GE-0001 Rev. 00
- 6.1 In addition to the terms of the API standard, the following shall be complied with:
- 6.1.1 Steel used in pipe manufacturing shall be deoxidized killed steel.
- 6.1.2 The steel shall have a perfect crystalline texture and shall be sound clear of impurities without any crack, lamination, blow hole or inclusion of foreign matter. The steel shall be of the highest quality especially regarding its resistance to aging.
- 6.1.3 The prinufacturer will make sure that the plates contain no defect such as lamination, blowledge core, scale, lack of material, crack, trace of tool, or other defects likely to cause break go corrosion or porosity of the pipe wall.
- 6.1.4 The quality of the plates shall be ultrasonically tested by the manufacturer at the plate ends for a 25 mm, tide strip and for four (4) bands of 25 mm wide distributed over the full width of the plate, or an equivalent process, provided that a written authorization has been given by the run taker.
- 6.1.5 No laminations are permitted in the 25mm width along the coil edges.
- 6.1.6 One or more of the following or titions shall result in pipe length being rejected:
- 6.1.6.1 Surface of laminar imperfections excleding 100 sq.cm.
- 6.1.6.2 More than five imperfections between 2 and 100 sq.cm found in the path of the longitudinal or traversal scanning.
- 6.1.6.3 The distance between two neighboring imperfections is less than three times the greatest length of the most important imperfection.
- 6.1.7 For other defects detected during ultrasonic examination, acceptability tolerances will be as per API referenced code.
- 6.1.8 Heat analysis/testing of the plate/coil shall be in accordance with API 5L and ASTM A370.
- 6.1.9 Tensile (Mechanical) Properties:

Pipe furnished to this specification shall confirm to following yield strength and tensile requirement as per Table 6 and Table 7 of API 5L.

6.1.10 For material required grade, refer table 3 and table 4.

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## Table 3 - Requirements for the Results of Tensile Tests for PSL 1 Pipe

	<del></del>	Pipe Body of Seamless and Welded Pipe						
Pipe Grade	Yield Strength *	Tensile Strength *	Elongation	Tensile Strength b				
	R <sub>tO.5</sub>	Rm	(on 50 mm or 2 in.) A <sub>f</sub>	R <sub>m</sub>				
	MPa (psi)	MPa (psi)	%	MPa (psl)				
	min	min	min	min				
L175 or A25	175 (25,400)	310 (45,000)	c	310 (45,000)				
L175P or A25P	175 (25,400)	310 (45,000)	c	310 (45,000)				
L210 or A	210 (30,500)	335 (48,600)	c	335 (48,600)				
245 or B	245 (35,500)	415 (60,200)	G					
290 or X42	290 (42,100)	415 (60,200)	c	415 (60,200)				
320 or X46	320 (46,400)	435 (63,100)	- c	415 (60,200)				
360 or X52	2 (52,200)	460 (66,700)	c	435 (63,100)				
390 or X56	390 (36,6 0)	490 (71,100)		460 (66,700)				
A15 or X60	415 (00/20)	520 (75,400)		490 (71,100)				
450 or X65	450 (65,300		c	520 (75,400)				
485 or X70	485 (70,300)	535 (77,600)	С.	535 (77,600)				
Enciptermediate		570 (82,700)	c	570 (82,700)				

For intermediate grades, the difference between the ninimum tensile strength and the specified minimum yield strength for the pipe body shall be as given in the table for the

For Intermediate grades, the specified minimum tensile stren veld seam shall be the same value as was determined for the pipe body using footnote a).

The specified minimum elongation, A<sub>f</sub>, expressed in percent and roo the nearest percent, shall be as determined using the following equation:

$$A_{\rm f} = C \frac{A^{0.2}}{11^{0.9}}$$

where

is 1940 for calculations using SI units and 625,000 for calculations using USC units

is the applicable tensile test piece cross-sectional area, expressed in square millime

1) for circular cross-section test pieces, 130 mm² (0.20 in.²) for 12.7 mm (0.500 in.) and ρ.350 ln.) diameter test pleces; 65 mm<sup>2</sup> (0.10 in.<sup>2</sup>) for 6.4 mm (0.250 in.) diameter test pleces;

2) for full-section test pieces, the lesser of a) 485 mm² (0.75 in.²) and b) the cross-sectional area of the using the specified outside diameter and the specified wall thickness of the pipe, rounded st 10 mm² (0.01 in.2);

for strip test pieces, the lesser of a) 485 mm<sup>2</sup> (0.75 in.<sup>2</sup>) and b) the cross-sectional area of the test pieces terived using the specified width of the test piece and the specified wall thickness of the pipe, rounded to the nearest 10 mm<sup>2</sup>

is the specified minimum tensile strength, expressed in megapascals (pounds per square inch).

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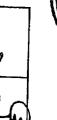






Table 4 - Requirements for the Results of Tensile Tests for PSL 2 Pipe

	Pipe Body of So	eamless and We	elded Pipe				Weld Seam of HFW, SAW and COW Pige
Pipe Grade	Yield Stren	gth *	Tensile Stre	ength <sup>a</sup>	Ratio <sup>a,c</sup>	Elongation (on 50 mm or 2 in.)	Tensile Strength <sup>d</sup>
	R <sub>10.5</sub>		R <sub>m</sub>		R <sub>to.5</sub> /R <sub>m</sub>	Aŗ	R <sub>m</sub>
	MPa (p	s1)	MPa (p	sl)		<u>%</u>	MPa (psi)
	min	max	min	max	max	min	mîn
1.245R or BR 1.245N or BN 1.245Q or BQ 1.245M or BM	(35,500)	450 (65,300) °	415 (60,200)	655 (95,000)	0.93	ť	415 (60,200)
L290R or X42R L290N or X42N L290Q or X42Q L290M or X42M	290 (42,100)		415 (60,200)	655 (95,000)	0.93	ŧ	415 (60,200)
L320N or X46N L320Q or X46Q L320M or X46M	320 (46,400)	.525 (76,100)	(35 13,190)	655 (95,000)	0.93	f .	435 (63,100)
L360N or X52N L360Q or X52Q L360M or X52M	360 (52,200)	530 (76,900)	(66,766)	760 (10,200)	0.93		460 (66,700)
L390N or X56N L390Q or X56Q L390M or X56M	390 (56,600)	545 (79,000)	490 (71,100)	120,00	0.93	f	490 (71,100)
L415N or X60N L415Q or X60Q L415M or X60M	415 (60,200)	565 (81,900)	520 (75,400)	760 (110,200)	0.93	,	520 (75,400)
L450Q or X65Q L450M or X65M	450 (65,300)	600 (87,000)	535 (77,600)	760 (110,200)	0.93	f	535 (77,600)
L485Q or X70Q L485M or X70M	485 (70,300)	635 (92,100)	570 (82,700)	760 (110,200)	0.93	2	570 (82,700)
L555Q or X80Q L555M or X80M	555 (80,500)	705 (102,300)	625 (90,600)	825 (119,700)	0.93		625 (90,600)
L625M or X90M	625 (90,600)	775 (112,400)	695 · (100,80 <del>0)</del>	915 (132,700)	0.97		695 (102 800)
L625Q or X90Q	625 (90,600)	775 (112,400)	6 <del>95</del> (100,800)	915 (132,700)	0.97 E	f	4.
L690M or X100M	690 (100,100) <sup>b</sup>	840 (121,800) <sup>b</sup>	760 (110,200)	990 (143,600)	0.97 h	f	760 (110,200)
L690Q or X100Q	690 (100,100) <sup>b</sup>	840 (121,800) <sup>b</sup>	760 (110,200)	990 (143,600)	0.97 h	f	_
L830M or X120M	830 (120,400) <sup>b</sup>	1050 (152,300) <sup>b</sup>	915 (132,700)	1145 (166,100)	0.99 <sup>h</sup>	f	915 (132,700)

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For intermediate grades, the difference between the specified maximum yield strength and the specified minimum yield strength shall be as given in the table for the next higher grade, and the difference between the specified minimum tensile strength and the specified minimum yield strength shall be as given in the table for the next higher grade; for intermediate grades up to Grade 1320 or X46, the tensile strength shall be ≤ 655 MPa (95,000 psi); for intermediate grades greater than Grade L320 or X46 and lower them Grade L555 or X80, the tensile strength shall be ≤ 760 MPa (110,200 psi); for intermediate grades higher than Grade L555 or X80, the maximum permissible tensile strength shall be obtained by interpolation; for Si units, the calculated value shall be rounded to the nearest 5 MPa; for USC units, the calculated value shall be rounded to the nearest 100 psl.

b For grades > L625 or X90, R<sub>p0.2</sub> applies.

<sup>C</sup> This limit applies for pipe with D > 323.9 mm (12.750 in.).

- d For Intermediate grades, the specified minimum tensile strength for the weld seam shall be the same value as was determined for the pipe body using footnote a).
- For pipe requiring longitudinal testing, the maximum yield strength shall be ≤ 495 MPa (71,800 psi).
- The specified minimum elongation,  $A_{\rm f}$  shall be as determined using the following equation:

rulations using SI units and 625,000 for calculations using USC units:

gnsile test piece cross-sectional area, expressed in square millimeters (square inches), as follows:

- section test pleces,  $130 \, \text{mm}^2$  (0.20 in.<sup>2</sup>) for 12.7 mm (0.500 in.) and 8.9 mm (0.350 in.) diameter test io.2) for 6.4 mm (0.250 in.) diameter test pieces;
- the lesser of a) 485 mm<sup>2</sup> (0.75 in.<sup>2</sup>) and b) the cross-sectional area of the test plece, derived for full-section using the specified atside diameter and the specified wall thickness of the pipe, rounded to the nearest 10 mm<sup>2</sup>.  $(0.01 \text{ in.}^2);$
- 3) for strip test pieces, the less  $485\,\mathrm{mm}^2$  (0.75 in. $^2$ ) and b) the cross-sectional area of the test piece, derived using the specified width of the test piece and the recified wall thickness of the pipe, rounded to the nearest 10 mm<sup>2</sup> (0.01 in.<sup>2</sup>);
- is the specified minimum tensile stream sed in megapascals (pounds per square inch).

g Lower values of  $R_{10.5}/R_{
m m}$  may be specified by agree

For grades > L625 or X90,  $R_{\rm p0.2}/R_{\rm m}$  applies. Lower value  $R_{
m m}$  may be specified by agreement.

- 6.1.11 Manufacturer have to submit reports independent internationally reputable laboratories for mechanical properties and ical analysis.
- 6.2 **Chemical Properties**
- 6.2.1 Chemical Composition
- 6.2.1.1 The chemical composition of pipe furnished to this specification as determined by heat analysis shall confirm to the chemical requirement in below API table 5 for PSL-1 pipe (Chemical Composition for PSL-I pipe with 1520.0 mm) and table 6 for PSL-2 pipe (Chemical Composition for PSL 2 pipe with t≤25.0 min
- 6.2.2 Acceptance Criteria
- 6.2.2.1 For PSL 2 pipe with t ≤ 25.0 mm (0.984 in.), the chemical composition grades shall be as given in Table 6, and the chemical composition for informediate grades shall be as agreed, but consistent with those given in Table 6.
- 6.2.2.2 For PSL 1 or PSL 2 pipe with t > 25.0 mm (0.984 in.), the chemical composition shall

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be as agreed, with the requirements of Tables 5 and 6 being amended as appropriate.

6.2.2.3 For PSL 2 pipe with a product analysis carbon mass fraction equal to or less than 0.12 %, the carbon equivalent, CE<sub>Pcm</sub>, shall be determined using Equation:

$$CE_{Pcm} = C + \frac{Si}{30} + \frac{Mn}{20} + \frac{Cu}{20} + \frac{Ni}{60} + \frac{Cr}{20} + \frac{Mo}{15} + \frac{V}{10} + 5B$$

Where, the symbols for the chemical elements represent the mass fraction in percent (see Table 6). If the heat analysis for boron is less than 0.0005 %, then it is not necessar, for the product analysis to include boron, and the boron content may be considered to be zero for the CE<sub>Pcm</sub> calculation.

6.2.2.4 For PSL 2 pipe with a roduct analysis carbon mass fraction greater than 0.12 %, the carbon equivalent Court hall be determined using Equation:

$$CE_{IW} = C + \frac{Mn}{6} + \frac{(O + Mo + V)}{15} + \frac{(Ni + Cu)}{15}$$

Where, the symbols for the memcal elements represent the mass fraction in percent (see Table 6).

Table 5 - Chemical Composition for PSL 1 Fig. with  $t \le 25.0$  mm (0.984 in.)

	abic 5 - C	metinical Co	Jimpositioi.	HOL BOLT		7 ≤ 25.0 mm	n (U.984 II	n.)
Steel Grade		Mass Frac	tion, Based or		oduct A ralyse	re .		
(Steel Name)	С	Mn		P	S	D,	Nb	П
	max <sup>b</sup>	max <sup>b</sup>	min	max	max	пах	max	max
		Seamless Pipe					3	<del></del>
L175 or A25	0.21	0.60	_	0.030	0.030	_ ~	20	
L175P or A25P	0.21	0.60	0.045	0.080	0.030	_	C	_
L210 or A	0.22	0.90	-	0.030	0.030	_	_ (	
245 or B	0.28	1.20		0.030	0.030	çd	c,d	
.290 or X42	0.28	1.30	_	0.030	0.030	d	d ·	d
320 or X46	0.28	1.40	_	0.030	0.030	d	d	đ
.360 or X52	0.28	1.40 .	_	0.030	0.030	d	d	d
390 or X56	0.28	1.40		0.030	0.030	d	d	d
.415 or X60	0.28 *	1.40 °	_	0.030	0.030	f	1	<del>                                     </del>

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	Central	Services	Sindh East & West	Transmission







					Spec.	No. LPI-SPE-GI	E-0001 Rev				
	Mass Frac	tion, Based or	Heat and Pro	duct Analyse	s <sup>a</sup> d						
ж											
, C	Mn	Р		S	٧.	Nb	Τi				
max <sup>b</sup>	max <sup>b</sup>	min	max	max	max	max	max				
			Seamless Plp	9	- <b>-</b>	<u> </u>					
0.28 *	1.40 e		0.030	0.030	f	,	1				
0.28 °	1.40 ª		0.030	0.030	f	1	,				
		W	elded Pipe		. <del></del>		L				
0.21	0.60		0.030	0.030	_		_				
221	0.60	0.045	0.080	0.030	_	-	·				
222	0.90		0.030	0.030		_					
0.26	1.20	_	0.030	0.030	c,d	c,d	. d				
0.26		-	0.030	0.030	d	d	d				
0.26	1.9	-	0.030	0.030	d	d	d				
0.26	1.40	<b>^</b> -	0.030	0.030	d	d	d				
0.26	1.40		0.030	0.030	d	d	d				
0.26 •	1.40 °	(2)	0.030	0:030	f		-				
0.26 *	1.45		0.030	0.030	,	f					
0.26 °	1.65 *						· ·				
	0.28 ° 0.28 ° 0.21 0.21 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26	C Mn max b max b  0.28 a 1.40 a  0.28 a 1.40 a  0.21 0.60  221 0.60  221 0.60  222 0.90  0.26 1.20  0.26 1.40  0.26 1.40  0.26 1.40  0.26 1.40  0.26 a 1.40 a  0.26 a 1.45 a	C Mn max b min  0.28 a 1.40 a —  0.28 a 1.40 a —  0.21 0.60 —  9.21 0.50 0.045  0.22 0.90 —  0.26 1.20 —  0.26 1.40 —  0.26 1.40 —  0.26 1.40 —  0.26 1.40 —  0.26 1.40 —  0.26 1.40 —  0.26 1.40 —  0.26 1.40 —  0.26 1.40 —	C Mn P  max b max b min max  Seamless Pipe  0.28 a 1.40 a — 0.030  0.28 a 1.40 a — 0.030  Welded Pipe  0.21 0.60 — 0.030  221 0.50 0.045 0.080  222 0.90 — 0.030  0.25 1.20 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030  0.26 1.40 — 0.030	C Min P S max b max b min max max  Seamless Pipe  0.28 a 1.40 a — 0.030 0.030  0.28 a 1.40 a — 0.030 0.030  Welded Pipe  0.21 0.60 — 0.030 0.030  0.21 0.60 0.045 0.080 0.030  0.22 0.90 — 0.030 0.030  0.26 1.20 — 0.030 0.030  0.26 1.40 — 0.030 0.030  0.26 1.40 — 0.030 0.030  0.26 1.40 — 0.030 0.030  0.26 1.40 — 0.030 0.030  0.26 1.40 — 0.030 0.030  0.26 1.40 — 0.030 0.030  0.26 1.40 — 0.030 0.030  0.26 1.40 — 0.030 0.030  0.26 1.40 — 0.030 0.030  0.26 1.40 — 0.030 0.030	Mass Fraction, Based on Heat and Product Analyses 48  "X  C Min P S V  max b min max max max  Seamless Pipe  0.28 1.40 a — 0.030 0.030 f  0.28 a 1.40 a — 0.030 0.030 f  Welded Pipe  0.21 0.60 — 0.030 0.030 —  921 0.60 0.045 0.080 0.030 —  22 0.90 — 0.030 0.030 —  0.26 1.20 — 0.030 0.030 d  0.26 1.40 — 0.030 0.030 f  0.26 1.40 — 0.030 0.030 f  0.26 1.40 — 0.030 0.030 f	C         Mn         P         S         V         Nb           max b         min         max         max				

<sup>&</sup>lt;sup>a</sup> Cu ≤ 0.50 %; Nl ≤ 0.50 %; Cr ≤ 0.50 % and Mo ≤ 0.15 %.

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b For each reduction of 0.01 % below the specified maximum content at an for carbon, an increase of 0.05 % above the specified maximum concentration for Mn is permissible, up to a maximum of 1.55 ½ grades ≥ 1.245 or B, but ≤ 1.360 or X52; up to a maximum of 1.75 % for grades > 1.360 or X52, but < 1.485 or X70; and up to a maximum 2,00 % for Grade 1.485 or X70.

Unless otherwise agreed, Nb + V ≤ 0.06 %. A for Gi.

Nb+V+TI≤0.15 %.

Unless otherwise agreed.

Unless otherwise agreed, Nb + V + Ti  $\leq$  0.15 %.

No deliberate addition of B is permitted and the residual B  $\leq$  0.001 %.



## Table 6 - Chemical Composition for PSL 2 Pipe with $t \le 25.0$ mm (0.984 in.)

	Mass Fra	ction, Ba			oduct Ana	alyses				
		r	% ma	2X Y			· 		% :	nax
Ср	SI	Mn <sup>b</sup>	Р	\$	ν	Nb	π	Other	CENW	CE <sub>Pcm</sub>
<del></del>			Seamles	s and We	lded Plpe					
0.24	0.40	1.20	0.025	0.015	С	С	0.04	히	0.43	0.25
0.24	0.40	1.20	0.025	0.015	0.06	0.05	0.04	ej	0.43	0.25
0.	0.40	1.20	0.025	0.015	С	c	0.04	ej	0.43	0.25
0.24	0.40	1.20	0.025	0.015	0.06	0.05	0.04	نه	0.43	0.25
0.24	10	1.40	0.025	0.015	0.07	0.05	0.04	đ,a,i	0.43	0.25
0.24	0.4	40	0.025	0.015	0.10	0.05	0.04	d,e,l	0.43	0.25
0.24	0.45	10	0.025	0.015	0.10 f	0.05	0.04	d,e,l	0.43	0.25
0.24 <sup>f</sup>	0.45 <sup>f</sup>	1 0 f	0.025	0.015	0.10 f	0.05 <sup>f</sup>	0.04 f	لبارع	As a	greed
0.18	0.45	1.40	0 .25	0.015	0.05	0.05	0.04	ಳ	0.43	0.25
0.18	0.45	1.40	0.25	0 015	0.05	0.05	0.04	e)	0.43	0.25
0.18	0.45	1.40	0.025	00.5	0.05	0.05	0.04	e,j	0.43	0.25
0.18	0.45	1.50	0.025	0.	0.05	0.05	0.04	6)	0.43	0.25
0.18	0.45	1.50	0.025	0.015	Si	0.05	0.04	ليعرف	0.43	0.25
0.18 <sup>f</sup>	0.45 <sup>f</sup>	1.70 f	0.025	0.015	4	7	g	hj	0.43	0.25
0.18 <sup>†</sup>	0.45 f	1.70 <sup>†</sup>	0.025	0.015			8	h	0.43	0.25
0.18 <sup>f</sup>	0.45 f	1.80 <sup>f</sup>	0.025	0.015	g	7	•	hJ	0.43	0.25
0.18 <sup>f</sup>	0.45 <sup>†</sup>	1.90 <sup>†</sup>	0.025	0.015	E	g		Ų	As as	reed
0.16 <sup>f</sup>	0.45 <sup>f</sup>	1.90	0.020	0.010	2	E			As as	reed
· 0.16 <sup>f</sup>	0.45 <sup>f</sup>	1.90	0.020	0.010	8		E	79	As a	reed
			Welde	ed Pipe						
0.22	0.45	1.20	0.025	0.015	0.05	0.05	0.04	9		0.25
0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	e)	0.4	0.25
0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	9		0.25
0.22	0,45	1.40	0.025	0.015	d	d	d	린		0.25
0.22	0.45	1.40	0.025	0.015	đ	d	ď	<u>-</u> وا		0.25
0.12 <sup>f</sup>	0.45 f	1.60	0.025	0.015	8			ы т		0.25
0.12 <sup>†</sup>								<u> </u>		0.25
	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	Cb Si  0.24 0.40 0.24 0.40 0.24 0.40 0.24 0.40 0.24 0.45 0.24 0.45 0.18 0.45 0.45 0.18 0.45 0.45 0.45 0.22 0.45 0.22 0.45 0.22 0.45	Cb         Si         Mnb           0.24         0.40         1.20           0.24         0.40         1.20           0.24         0.40         1.20           0.24         0.40         1.20           0.24         0.40         1.20           0.24         0.40         1.40           0.24         0.45         1.0           0.24         0.45         1.0           0.24         0.45         1.40           0.18         0.45         1.40           0.18         0.45         1.50           0.18         0.45         1.50           0.18         0.45         1.70           0.18         0.45         1.70           0.18         0.45         1.70           0.18         0.45         1.90           0.18         0.45         1.90           0.18         0.45         1.90           0.18         0.45         1.90           0.18         0.45         1.90           0.18         0.45         1.90           0.18         0.45         1.90           0.18         0.45         1.90	Cb         Si         Mn b         P           0.24         0.40         1.20         0.025           0.24         0.40         1.20         0.025           0.24         0.40         1.20         0.025           0.24         0.40         1.20         0.025           0.24         0.40         1.20         0.025           0.24         0.40         1.40         0.025           0.24         0.49         1.0         0.025           0.24         0.49         1.0         0.025           0.24         0.49         1.0         0.025           0.24         0.49         1.0         0.025           0.24         0.49         1.0         0.025           0.18         0.45         1.40         0.025           0.18         0.45         1.40         0.025           0.18         0.45         1.50         0.025           0.18         0.45         1.50         0.025           0.18         0.45         1.70         0.025           0.18         0.45         1.70         0.025           0.18         0.45         1.90         0.025      <	Cb         Si         Mn b         P         S           0.24         0.40         1.20         0.025         0.015           0.24         0.40         1.20         0.025         0.015           0.24         0.40         1.20         0.025         0.015           0.24         0.40         1.20         0.025         0.015           0.24         0.40         1.20         0.025         0.015           0.24         0.40         1.40         0.025         0.015           0.24         0.49         1.40         0.025         0.015           0.24         0.49         1.40         0.025         0.015           0.24         0.45         1.40         0.025         0.015           0.18         0.45         1.40         0.025         0.015           0.18         0.45         1.40         0.025         0.015           0.18         0.45         1.50         0.025         0.015           0.18         0.45         1.50         0.025         0.015           0.18         0.45         1.70 f         0.025         0.015           0.18         0.45 f         1.90 f         <	Cb         SI         Mnb         P         S         V           0.24         0.40         1.20         0.025         0.015         c           0.24         0.40         1.20         0.025         0.015         c           0.24         0.40         1.20         0.025         0.015         0.06           0.24         0.40         1.20         0.025         0.015         0.06           0.24         0.40         1.20         0.025         0.015         0.06           0.24         0.40         1.20         0.025         0.015         0.06           0.24         0.41         1.40         0.025         0.015         0.07           0.24         0.43         1.40         0.025         0.015         0.10           0.24 (0.45)         1.40 (0.25)         0.015         0.10 (0.10)           0.18 (0.45)         1.40 (0.25)         0.015         0.05           0.18 (0.45)         1.40 (0.025)         0.015         0.05           0.18 (0.45)         1.50 (0.025)         0.015         0.05           0.18 (0.45)         1.70 (0.025)         0.015         0.05           0.18 (0.45)         1.70 (0.025)	Cb         SI         Mn b         P         S         V         Nb           0.24         0.40         1.20         0.025         0.015         c         c           0.24         0.40         1.20         0.025         0.015         0.06         0.05           0.24         0.40         1.20         0.025         0.015         c         c           0.24         0.40         1.20         0.025         0.015         0.05         0.05           0.24         0.40         1.20         0.025         0.015         0.05         0.05           0.24         0.40         1.40         0.025         0.015         0.10         0.05           0.24         0.43         1.40         0.025         0.015         0.10         0.05           0.24         0.45         1.40         0.025         0.015         0.10 f         0.05           0.18         0.45         1.40         0.025         0.015         0.05         0.05           0.18         0.45         1.50         0.025         0.015         0.05         0.05           0.18         0.45         1.50         0.025         0.015         \$	Cb         SI         Mn b         P         S         V         Nb         TI           Seamless and Welded Pipe           0.24         0.40         1.20         0.025         0.015         c         c         0.04           0.24         0.40         1.20         0.025         0.015         0.06         0.05         0.04           0.24         0.40         1.20         0.025         0.015         0.05         0.05         0.04           0.24         0.40         1.20         0.025         0.015         0.05         0.05         0.04           0.24         0.40         1.20         0.025         0.015         0.05         0.05         0.04           0.24         0.40         1.40         0.025         0.015         0.07         0.05         0.04           0.24         0.43         1.40         0.025         0.015         0.10 †         0.05         0.04           0.18         0.45         1.40         0.025         0.015         0.05         0.05         0.04           0.18         0.45         1.40         0.025         0.015         0.05         0.05         0.04           0.	Cb         SI         Mn b         P         S         V         Nb         TI         Other           Userness and Weller           0.24         0.40         1.20         0.025         0.015         c         c         0.04         e.j           0.24         0.40         1.20         0.025         0.015         0.06         0.05         0.04         e.j           0.24         0.40         1.20         0.025         0.015         c         c         0.04         e.j           0.24         0.40         1.20         0.025         0.015         0.06         0.05         0.04         e.j           0.24         0.40         1.20         0.025         0.015         0.06         0.05         0.04         e.j           0.24         0.40         1.40         0.025         0.015         0.07         0.05         0.04         de.j           0.24         0.45         1.40         0.025         0.015         0.10f         0.05         0.04         de.j           0.18         0.45         1.40         0.025         0.015         0.05         0.05         0.04         e.j           0.18	C   S   Mn   P   S   V   Nb   T   Other   CE <sub>RW</sub>

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<del></del>								Spec.	No. LPI-S.	PE-GE-000	)1 Rev. 0
Steel Grade (Steel Name)		Mass Fra	ction, 8a	sed on Ho	eat and Pr	oduct An	alyses			Carb Equiva % 1	
	Ср	SI	Mnb	Р	5	٧	Nb	Ti	Other	CE <sub>ITW</sub>	CE <sub>Pcm</sub>
				W	elded Pipe	}					
L485M or X70M	0.12 <sup>f</sup>	0.45 <sup>f</sup>	1.70 <sup>†</sup>	0.025	0.015	£		E	Ŋ.	0.43	0.25
1555M or X80M	0.12 f	0.45 <sup>f</sup>	1.85 <sup>f</sup>	0.025	0.015	6	g	8	u	0.43	0.25
£625M or X90M	0.10	0.55 1	2.10 f	0.020	0.010	E		g	u		0.25
L690M or X100M	0.10	0.55 f	2.10 <sup>f</sup>	0.020	0.010	£	8	g	u	1	0.25
L830M or X120M	0.10	0.55 <sup>†</sup>	2.10 f	0.020	0.010	£	8	g	u	1 -	0.25

- analysis, for seamless pipe with t > 20.0 mm (0.787 in.), the CE limits shall be as agreed; the CEIIW limits apply if C m limits apply if C ≤ 0.12 %.
- 0.01 % below the specified maximum for C, an increase of 0.05 % above the specified maximum for Mn is permissible up rm of 1.65 % for grades ≥ L245 or B, but ≤ L360 or X52; up to a maximum of 1.75 % for grades > L360 or X52, but < L485 or X70: to a maximum of 2.00 % for grades ≥ L485 or X70, but ≤ L555 or X80; and up to a maximum of 2.20 % for grades > L555 or X80.
- Unless otherwise agreed, Nh
- Nb+V+TI≤0.15 %.
- 0 %; Cr ≤ 0.30 % and Mo ≤ 0.15 %. Unless otherwise agreed, Ou ≤ 0
- Unless otherwise agreed, Nb + V + Ti ≤ 0.1
- 0.50 % and Mo ≤ 0.50 %. Unless otherwise agreed, Cu ≤ 0.50 %; Ni ≤ 0.50
- Unless otherwise agreed, Cu ≤ 0.50 %; Ni ≤ 1.00
- B ≤ 0.004 %.
- Unless otherwise agreed, Cu ≤ 0.50 %; Ni ≤ 1.00 %; Cr ≤ 1 {o ≤ 0.80 %.
- For PSL 2 pipe grades except those grades to which footnog (i) a y applies, the following applies: unless otherwise agreed no intentional addition of B is permitted and residual B  $\leq$  0.001 %
- 6.3 Manufacturer have to submit reports from i dependent internationally reputable . laboratories for mechanical properties and chemical ap
- 6.4 Heat Analysis

The Purchaser shall be supplied with the report giving the beat alyses of each heat of steel used in the manufacture of pipe furnished under the specification. For Heat Analysis requirement refer table 17 of API 5L for PSL-1 piges d\_table 18 of API 5L for PSL-2 pipes.

6.5 Product Analysis

The manufacturer shall supply the Purchaser with a report on check analyses sken from finished pipes. In addition to the API Standard requirements, the pipes from which samples shall be taken will be selected by the Purchaser's representative

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among the ten (10) first pipe lengths coming from the same heat, for each heat. The permissible variations will be within the limits specified in standard API 5L.

- 6.6 Mill Control Analysis
  The Purchaser shall be provided with the complete set of records pertaining to this step.
- 6.7 Chemical Analysis Procedures
  The chemical analysis procedures shall be in accordance with ASTM A751 code.
- 6.8 Me of piral Properties & Tests
- 6.8.1 Tensile Cop rties
- 6.8.1.1 The Mechanical analysis procedure shall be in accordance with ASTM A-370.

Table 7 - Number, Orientation, and Location of Test Pieces per Sample for Mechanical Tests for PSL 1 Pipe

			10113617				
			Number, Orientation, and Location of Test Pieces per Sample *				
			$\Diamond$	Specified Out	side Diameter		
Type of Pipe	Sample	Type of		1	D		
1,755,2	Location	Test		mm	(in.)		
			< 219.1 (7.525)	219.1 (8.625) to < 323.9 (12.750)	323.9 (12.750) to < 508 (20.000)	≥ 508 (20.000)	
SMLS, not cold- expanded [see Figure 5 a)]	Pipe body	Tensile	1L b	1/0	11	11.	
SMLS, cold- expanded [see Figure 5 a)]	Pipe body	Tensile	1L b	1T°	1T°	1T°	
	Pipe body	Tensile	1L90 b	· _		· _	
CW [see Figure 5 b)]	Pipe body and weld	Bend	1.	_	70		
tees i igai e a an	Pipe body and weld	Hattening	As shown in Figure 6				
	Pipe body	Tensile	1L90 b	1T180 °	1T180 °	TIPLE	
LW [see Figure 5 b)]	Seam weld	Tensile	_	1W	1W	W	
	Seam weld	Guided-bend	_		2W	2W	
	Pipe body and weld	Flattening		As shown	n Figure 6		

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Spec. No. LPI-SPE-GE-0001 Rev. 00 Number, Orientation, and Location of Test Pieces per Sample **Specified Outside Diameter** Sample Type of Type of Plpe mm (in.) Location Test 219.1 (8.625) to 323.9 (12.750) to < 219.1 (8.625) ≥ 508 (20.000) < 508 (20.000) 323.9 (12.750) Pipe body Tensile 1190 b 1T180 ° 1T180 ° 1T180 ° Seam weld Tensile 1W 1W 1W LFW or HFW Pipe body Bend 10 [see Figure 5 b)] and weld Pipe body Flattening As shown in Figure 6 and weld e body Tensile 1L90 b 1T180 ° 1T180 ° 1T180 ° SAWL or COVI Sea Tensile 1W 1W<sup>d</sup> 1W [see Figure 5 b)] SAWH or COWH [see Figure 5 c)]

or COWH
igure 5 c)]

Seam weld

Coll/plate
end weld

Seam weld

Guiled Bend

2v.

Coll/plate
end weld

ase Figure 5 for an explanation of the symbols shad a designate orientation and location of sa...

iull-section longitudinal test pieces may be used at the option of the manufacturer.

If agreed, annular test pieces may be used for the determantion of transverse yield strength by the hydraulic nuaccordance with ASTM AS70.

For double-seam pipe, both longitudinal weld seams in the pipe selected to represent the test unit shall be tested.

7 Testing limited to pipe of D ≤ 60.3 mm (2.375 in.).

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transverse yield strength by the hydraulic ring expansion test in



Table 4 and a second second	Spec. No. LPI-SPE-GE-0001 Rev. QO
Table 8- Number, Orientation, and Location of Test Pieces per Sample fo	r Machanical Toota for DCL 2 Dina
the result of the second of th	i Mechanical 16202 for PSL Z Pipe

			Number, Orientation, and Location of Test Pieces per Sample *					
	ł		Specified Outside Dlameter					
Type of Pipe	Sample	· 1 //*** 1		D				
	Location	Test		mn	ı (in.)			
			< 219.1 (8.625)	219.1 (8.625) to < 323.9 (12.750)	323.9 (12.750) to < 508 (20.000)	≥ 508 (20.000)		
SMLS, not collection expanded	Pipe body	Tensile	1L <sup>b</sup>	1L ¢đ	1L cd	1L cd		
[see Figure 5 av	The body	CVN	3T	31	3T	3T		
SMLS, cold- expanded	Pipe bay	Tensile	1L b	1T <sup>'d</sup>	1T <sup>d</sup>	1T <sup>d</sup>		
[see Figure 5 a)]	ripetacy	CVN	3T	31	ЗТ	31		
		Tomic	1L90 b	1T180 <sup>d</sup>	17180 <sup>d</sup>	1T180 <sup>đ</sup>		
	Pipe body	VN	3T90	3T90	3T90	3190		
HFW		DWT				21790		
[see Figure 5 b)]	Seam weld	Tensile <	Δ-	1W	1W .	1W 3W .		
		CVN	3W	3W	3W			
	Pipe body and weld	Flattening	<b>10</b>	As shown	in Figure 6			
	Pipe body	Tensile	1L90	1T180 d	1T180 <sup>d</sup>	1T180 <sup>d</sup>		
ł		CVN	3T90	3T90	3190	3790		
SAWL or COWL		DWT				2T90		
[see Figure 5 b)]	Seam weld	Tensile	****	11/1	1W	1W <sup>e</sup>		
		CVN	3W and 3HAZ	3W and 3HAT	3W and 3HAZ	3W eand · 3HAZ e		
		Guided- bend	2W <sup>f</sup>	2W <sup>†</sup>	2W1	2W e,f		
		Tensile	1L <sup>b</sup>	1T <sup>d</sup>	7	1T <sup>d</sup>		
	Pipe body	CVN	3T	зт	3/	ЗТ		
		DWT	_		-	_ 2T		
		Tensile		1W	1W	(Iw		
SAWH or COWH [see Figure 5 c)]	Seam weld	CVN	3W and 3HAZ	3W and 3HAZ	3W and 3HAZ	SAHE IN WE		
		Gulded- bend	2W <sup>f</sup>	2W <sup>f</sup>	2W <sup>f</sup>	2W <sup>f</sup>		
		Tensile	_	1WS	1WS	1WS		
	Coil/plate	CVN	3WS and 3HAZ	3WS and 3HAZ	3WS and 3HAZ	3WS and 3HAZ		
	end weld	Gulded- bend	2WS <sup>f</sup>	2WS <sup>f</sup>	2WS <sup>f</sup>	2WS <sup>†</sup>		

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- See Figure 5 for an explanation of the symbols used to designate orientation and location.
- b Full-section longitudinal test pieces may be used at the option of the manufacturer.
- c If agreed, transverse test pieces may be used.
- If agreed, annular test pieces may be used for the determination of transverse yield strength by the hydrautic ring expansion test in accordance with ASTM A370.
- For double-seam pipe, both longitudinal-weld seams in the pipe selected to represent the test unit shall be tested.
- For pipe with r II 19.0 mm (0.748 in.), the test pieces may be machined to provide a rectangular cross-section having a thickness of 18.0 mm (0.709 in.).

### 6.8.2 Manipulation test for submerged-Arc Welds

Submerged arc welds shall be tested by the guided-bend test. The test specimens shall be taken from the helical weld in a length of pipe from each lot of 50 lengths or less of each combination of outside diameter, wall thickness and grade and from a skelp end weld in tength of pipe from each lot of 50 lengths or less of each combination of outside diameter, wall thickness, and grade of finished helical seam pipe containing skelp end welds. The test specimen shall not contain repair welds.

- 6.8.3 Tensile Testing
- 6.8.3.1 Tensile tests and wasternsile tests shall be performed on one pipe from each lot of pipes.
- 6.8.3.2 Tensile testing frequency seed be in accordance with API 5L or the following lot definition, whichever yields the cheater number of tests. The term "lot" is defined herein as a maximum produced length of 1,000 meters of pipe.
- 6.8.4 Fracture Toughness Tests
- 6.8.4.1 Fracture toughness tests shall be conducted in accordance with API 5L SR5 and ASTM A370. All pipe diameter and wall thickness condinations on the pipe order shall be Charpy V-notch impact tested.
- 6.8.4.2 Six transverse Charpy specimens (three (3) with the base metal and three (3) with the notch in the weld) shall be taken from one length of pipe from each lot of 100 lengths per heat produced.
- 6.8.4.3 Testing temperature shall be 0°C (32°F).
- 6.8.4.4 The average energy value of three specimens shall not be less than 35 /cm² with no single energy value less than 28 J/cm².
- 6.8.4.5 Charpy test specimens shall be the largest possible Charpy specimen she much can be machined from the pipe wall thickness.

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6.8.5 Hardness Tests

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- 6.8.5.1 Cross section samples of the weld zone shall be cut from one (1) pipe for each lot of pipes and prepared for hardness testing.
- 6.8.5.2 Hardness tests shall be conducted in the base metal, fusion zone and heat affected zones. Hardness traverses shall be made on the inside, outside and appropriate midpoint of wall thickness of the cross section specimens. Each traverse shall include basemetal and heat-affected zones on both sides of the weld and fusion zone.
- 6.8.5.3 The paximum hardness shall not exceed 260 Vickers (HV5).

### 7 <u>DIMENSION</u>, MASS & TOLERANCES

- 7.1 Dimensions
- 7.1.1 The pipe shall be dever it to the dimensions specified in the purchase order, subject to the applicable tolerance.
- 7.2 Weight
- 7.2.1 The pipe shall be weighed either muvicually or in convenient lots and truck load weight thus determined.
- 7.2.2 Threaded pipes can be weighed with the thread protectors for which proper allowance shall be made.
- 7.2.3 The tolerance for weight shall be within tolerances 0% to +5% of specified mass per unit length.
- 7.2.4 The manufacturer is liable to supply the quantity in meters per purchase order.
- 7.3 Tolerances for Diameter, Wall Thickness, Length and Straigh ness
- 7.3.1 The pipe ovality and high & low problems in a pipe back shown in spicitly controlled, so that problem encountered during field welding is minimized. Tole are for Diameter at Pipe Ends shall generally be in accordance with Table 10 of API Sp. St. with the exception that Diameter out of roundness (Maximum differential between Minimum and Maximum Diameters) shall not exceed 0.125 inch.
- 7.3.2 The wall thickness at any location shall be within tolerances -0% to +5% of specified wall thickness except that the weld area shall not be limited by the plus tolerance. Wall thickness, measurements shall be carried out in accordance with para 9.11.3 of API Spec 5L.
- 7.3.3 The welded Pipes shall be furnished in double random lengths 12 meters (40 feet) from size 4" and above. The average length of pipe for each carload of 40,000 lbs. shall not

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be less than thirty-five (35) feet. No more than ten percent of length shall be shorter than 26.3 feet.

Further to above the pipe size from %" to 24" welded/Seamless pipe length 20 feet (6 Meter) will be acceptable to purchaser subject to specified in the SOR/Purchase order.

- 7.3.4 The tolerances for length shall be as follows:
- 7.3.4.1 Unless otherwise agreed, random lengths shall be delivered within the tolerances given in Table-12 of API 5L.
- 7.3.4.2 Approximate lengths shall be delivered within a tolerance of  $\pm$  500 mm (20 in.).
- 7.3.4.3 Jointers are not recommended as per SSGC practice. If it is agreed than following shall be applicable as per API 5L (9.11.3.3)
- 7.3.4.4 If the supply of jointers is agreed, jointers comprising two pieces welded together to make a lineth shorter than 15.0 m (49.2 ft) may be furnished to a maximum of 5 % of the order item, or as agreed.
- 7.3.4.5 If the supply opiniters is agreed, jointers comprising two pieces welded together to make a length 1.00 (49.2 ft) or longer may be furnished for the entire order item or any portion the compression of the compressi
- 7.3.4.6 The tolerances for straightness shall be as follows.
- 7.3.4.7 The total deviation from Spaight line, over the entire pipe length, shall be ≤ 0.2 % of the pipe length, as shown in Pigere 1.

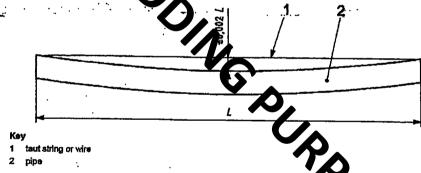


Figure 1-Measuring Full-length Straightness

7.3.4.8 The local deviation from a straight line in the 1.5 m (5.0 ft) portion after the pipe end shall be ≤ 3.2 mm (0.125 in.), as shown in Figure 2.

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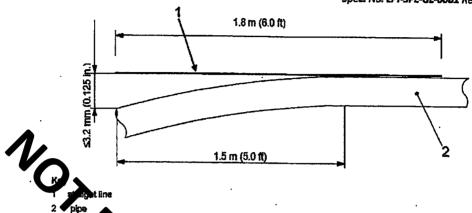


Figure 2—Measuring End Straightness

- 7.4 Finish of Pipe Ends
- 7.4.1 Grade L175P or A25P PSC pipe shall be furnished with threaded ends; other grades of PSL 1 pipe shall be furnished of plain ends, unless another acceptable end finish is specified in the purchase order. PSC 2 sipe shall be furnished with plain ends. Pipe ends shall also be free from burrs.
- 7.4.2 Each length of the pipe shall be fur ished with ends beveled as per Schedule of Requirement to an angle of thirty degrees (4)\*) plus five degrees (5\*), minus zero degree (-0\*) from the perpendicular to the axis of the pipe and with a root face of 1/16 inch ± 1/32 inch. Tolerances & removal of burrs will be according to paragraph 9.11 and 9.12 of API Specification 5L.
- 7.4.3 The supplier shall provide bevel guards/end caps as per schedule of requirement for each end of the pipe. Bevel guards/End caps shall be rought to withstand handling during loading/unloading. Bevel guard shall cover both inside and outside of the pipe at least 4 inch of pipe ends and also supplier should ensure for arrangement of strengthen end cap fixing at both end of pipe at mill prior to Ex-works deliver to nake ture the line pipe safety during long storage in an open environment during shipment of storage at Buyer's locations. Bevel Guards / End Cap as per schedule of requirement details shall be submitted with bid.
- 7.5 Threaded Ends (PSL 1 Only)
- 7.5.1 Threaded ends shall conform to the threading, thread inspection, and gauging requirements of API 5B.
- 7.5.2 One end of each length of threaded pipe shall be provided with a coupling conforming

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to the Requirements of Annex F of API 5L, and the other end shall be provided with thread protection conforming to the Requirements of 12.2.

- 7.5.3 Couplings shall be screwed onto the pipe handling-tight or, if agreed, power-tight.
- 7.6 Belled Ends (PSL 1 Only)

  For belled end pipe clause 9.12.3 of API 51 shall be applicable.
- 7.7 Ends Prepared for Special Couplings (PSL 1 Only)

  For End preparation clause 9.12.4 of API 5L shall be applicable.
- 7.8 Plain Ends
  For Plain End preparation clause 9.12.5 of API 5L shall be applicable.

### 8 LINE PLE VELD WELDABILITY

- 8.1 Bidder/Supplier shall confirm and certify that the line pipe to be supplied shall be suitable for field welding with electrodes complying with AWS classification or equivalent standard manufactured in all respect to AWS specification A 5.1 and A 5.5 or ASME specification for Aid steel or low alloy steel, high cellulosic covered fast freeze arc welding electrodes as applicable to produce crack free welds specifically for offered line pipe.
- 8.2 Bidder shall elaborate the flet wasting of line pipe chemistry and any pre heat treatment requirement for the offer deline pipe. The bidder may also propose his recommendations with respect to suit oilly of the Welding electrodes/flux wire (Both).

### 9 MARKING

(

Pipe markings shall include the following information per 11.2 of API 5L sequentially, as applicable:

- Name or mark of the manufacturer of the pipe (X)
- P.O. No.
- Project Name
- "API Spec 5L" shall be marked when the product is in complete completince with this specification, appropriate annexes, and this section. Products in companies with multiple compatible standards may be marked with the name of each tracourd;
- Specified outside diameter
- Specified wall thickness

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- Pipe steel grade
- PSL designation
- Type of pipe.
- Mark of the customer's inspection representative
- An identification number
- 9.1 Pipe Manufacturer shall also mention below details on the outer surface of the pipe;
  - Pipe No.
  - Joseph No.
  - 1
  - Matair Gode
- 9.2 API Spec 5k Registered Mono shall be marked when the product is in complete compliance with his specification, appropriate annexes, and this section.

### 10 TESTING AND INSPECTION

- 10.1 Hydrostatic Test
- 10.1.1 Test pressures for each size of SMVs pile and for welded pipe with D ≤ 457 mm (18.000 in.) shall be held for not less than 5 seconds as per 10.2.6, API-5L.
- 10.1.2 Test pressures for welded pipe with D > 41/20 (18.000 in.) shall be held for not less than 10 seconds as per 10.2.6 API-5L.
- 10.1.3 For threaded-and-coupled pipe, the test shall be applied with the couplings made up power-tight if agreed, except that pipe with D > 323.5 in... (22.375 in..) may be tested in the plain-end condition.
- 10.1.4 For threaded pipe furnished with couplings made up handling light, the hydrostatic test shall be made on the pipe in the plain-end, threads-only, or coupled condition unless a specific condition is specified in the purchase order.
- 10.1.5 The purchaser may specify bursting test on random specimen for diameter as per Schedule of requirement of pipes up to a limit of 2 specimen for the whole order. This limit is exclusive of re-tests necessary due to failure of any specimen.
- 10.2 Burst Test and DWT Test
- 10.2.1 Pipe Burst Test shall be performed in accordance with API 5L (as per Annexure G).

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10.2.2 DWT Test shall be performed as per API RP 5L3.

### 10.3 Hydrostatic Test Pressure

- 10.3.1 Test pressures for light-wall threaded pipe shall be as given in Table 24 of API-5L.
- 10.3.2 Test pressures for heavy-wall threaded pipe shall be as given in Table 25 of API-5L.
- 10.3.2.1 The hydrostatic test pressure, P, expressed in Mega Pascals (pounds per square inch), for plain-end pipe shall be determined by using Equation given below, with the results rounded to the nearest 0.1 MPa (10 psi).

P = 2.St/D

- S is the hosp stress, expressed in Mega Pascals (pounds per square inch), equal to 90(%) percent of the specified minimum yield strength of the pipe, as given in Table 26 of APLES.
- t is the specified wat thickness, expressed in millimeters (inches);
- D is the specified outside the meter, expressed in millimeters (inches).

### 10.4 Non-destructive testing

- 10.4.1 The weld seam of each welded pipes farr shed to this specification shall be inspected non-destructively for the full length (10.0%) in accordance with methods specified below:
- 10.4.1.1 Electric welded pipe shall be inspected for styrace and sub-surface defects by ultrasonic or electromagnetic methods in accordance with methods specified by API specification, 5L.
- 10.4.1.2 Pipe ends shall be inspected by using hand-held ultrasonic shall wave equipment or other NDT method agreed by the manufacturer and purchaser.
- 10.4.1.3 For ultrasonic test high angle multi-direction probes (transducer) should preferably use.
- 10.4.1.4 All defect in pipe body and seam e.g. lap, pit seam, rolled, in slag, upturned fibers, cold welds with lamination, hard spot as indicated shall be dealt with as per AP specification 5L.

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- 10.4.1.5 Cracks, leaks, lack of fusion, penetrator: The section of pipe containing racks, lack of fusion, penetrator shall be rejected. The section of the pipe containing cracks, lack of fusion, penetrators shall be rejected. The section of the pipe shall be cut off within the limits of the requirement on length.
- 10.4.1.6 Submerged arc welded pipes shall be inspected full length, by radiological method in accordance with methods specified by API specification 5L.
- 10.4.1.7 Weld & parent metal imperfection and defects, such as size and distribution of alusion, gas pocket discontinuities, cracks, leak, lack of penetration, lack of com let fasion, arc burn, undercut, under fills, hard spots, laminations, sweats and other defrets as observed during radiographic examination shall be dealt with as per API specification 3L. The removal of all the defects shall be verified by radiographic or other method as equired.
- having a minimum dimension greater than 2-inches in any 10.4.1.8 Hard spot: Any hard direction and a hardness greater than 35 (HRC) BH shall be rejected. The section of the pipe containing the hard procedule shall be removed as a cylinder.
- 10.4.1.9 Cracks and Leaks: The section of the piece containing cracks or leaks shall be rejected. The section of the pipe shall be con ithin the limits of the requirements on length.
- Workmanship and defects on the pipe elated to dents, offset, plate edges, height of weld bead, height of flash of electric welded pipe, hard spots, cracks, 10.4.1.10 sweats/leaks, lamination, arc burns and undercut on and repair of defects shall be in accordance with chapter 9 & chapter 10 of 15
- Imperfections of the types that exceed the specified crit ria described in paras 10.4.1.11 9.10.1 to 9.10.7 of API Spec. 5L shall be considered as defects ereover, any imperfection having a depth greater than 8% of the specified was measured from the surface of the pipe, shall be considered a defect.
- Repair by weld of body pipe, plate and skelp is prohibited. 10.4.1.12
- 10.4.1.13 Repair by welding and weld seams without filler metal is prohibited.
- Weld repair in each pipe length shall be limited to a maximum 5% weld seam 10.4.1.14 length.

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- Repair of weld seam pipe is not acceptable within 200mm of bevel ends, pipe 10.4.1.15 section containing defect shall be cut-off and re-beveled in accordance with API 5L.
- 10.4.1.16 Weld repair shall not be carried out after cold expansion or hydrostatic testing of pipe. All welding and repair shall be executed using qualified low hydrogen procedures, which have been approved for the purpose by the purchaser and or its appointed third party inspector. 100% radiography/ultrasound of weld repairs shall be performed.
- 10.4.1.17 Only one repair attempt is permitted per defect.
- All approved weld repair details shall be recorded and also soft copy shall be 10.4.1.18 pitted.
- 10.5 Flattering Weld Ductility Tests

At the option of the company (purchaser) the manufacturer shall take samples from the pipes manufactured in their premises for carrying out flattening and weld ductility tests in the factory in a corresponde with the requirements of API-5L. Manufacturers have to arrange and pay for the from an independent laboratory.

- 10.6 The above test frequency frequency shall be for the whole order and their cost should be included. This limit is eyousive of re-tests necessary due to failure of any specimen. (As applicable to API 5
- 10.7 Complete inspection criteria of ste pipe shall be performed at Mill by Manufacturer as per API 5L table 17 for PSL table 18 for PSL 2 respectively.

### 11 **COATING**

Mill coating on the pipe surface is required on pipes of Dia. 4" and above sizes as per schedule of requirement. For coating refer spec. "SSGC's al Specification for 3 Layer PE Coating (COT-SPE-GE-0100)".

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### 12 MANDATORY REQUIREMENTS

- 12.1 The bidder shall submit the valid copy of following certificates;
  - API 5L (Pipe Manufacturer's registration)
  - API Specs Q1 / ISO 9001 (Quality Control and Management System)
  - ISO 14001 (Environmental Management System)
  - ISO 45001/18001(OSHAS)
- 12.2 Bids are invited directly from the Manufacturer or their authorized local agents in Pakistan deside local agent, principle involvement would be acceptable as regional Sales Replacent tive, in case of foreign purchase. The Local pipe manufacturer may also participate directly in bidding process. However, in any case, Bids from stockiest and Brokers will be relected.
- 12.3 The local agents/supplies are required to submit valid authorization letter from the Manufacturer failing which all make bid non-compliant.
- 12.4 The bidder shall provide a clear of concise, clause by clause, compliance or exception (with detail) commentary to the exceptions duly signed and stamped by Manufacturer which is mandator for technical evaluation, failing to submit this document may be considered non responsible.
- 12.5 Offered Line pipe shall comply with the requirement of this specification. Quoted Line pipe which do not strictly comply with the requirements of this specification are liable for rejection.

### 13 SALES TRACK RECORD

- 13.1 The Bidder shall submit the supporting documents of sales tracks alord for the offered Line Pipes including copies of purchase order & satisfactory performance certificate of operations issued by different client/end users related to Oil & Gas Section with similar requirement along with their email (email address of end user's company of main and not the commercial domain like Yahoo, Gmail, or Hotmail, etc.), fax, telephine, a dress and name of persons to contact to whom they have supplied the offered like pipes within the last five (05) years and have been successfully installed and operated.
- 13.2 Simply submitting a list of customers, to whom the Manufacturer has been supplying the Line pipes, will not meet the intent and purpose of this requirement. Failure to comply with this requirement may result in rejection of the bid.

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### 14 THIRD PARTY INSPECTION

- 14.1 In addition to the inspection and witnessing of mill tests to be done by the Manufacturer during the manufacturing and shipment of the Equipment / Material, SSGC may appoint a third party at its own cost for witnessing of the inspection and testing to be carried out at the manufacturer's facility under this specification. However, the purchaser (SSGC) reserves the right to witness any aspect of the manufacturing process / testing at no extra cost of atleast Two (02) Engineers. Vendor shall submit an inspection and testing procedure (ITP) for review and approval by the purchaser prior to the start of manufacturing
- 14.2 The printing the delivery period as specified in the contract.
- 14.3 The insector representing the purchaser shall have unrestricted access in the factory, during the period they are engaged on behalf of the purchaser.
- 14.4 The plant access inspection, rejection, compliance etc. will be in accordance with API Specification 5L.

### 15 IN-HOUSE QUALITY CONTROL

- 15.1 The manufacturer shall prove obcuments for the in-house quality control program which shall strictly be adhered to it the production of all quoted manufactured products.
- 15.2 The program which must adhere to quant control standard registration API 5L from API, and ISO 9001 certificate from internationally recognized organization, also provide following details.
- 15.2.1 Weighting scale suitable for weighting pipes along with capacity, make and quantity.
- 15.2.2 Bevel gauges for measuring angles of bevel & pipe tricky as gauges.
- 15.2.3 Number of personnel engaged on quality control giving their pames, qualification and experience.
- 15.2.4 Vernier calipers, micrometer and other tools specification and quantity, make and capacity.
- 15.2.5 Equipment for carrying out mechanical tests.
- 15.2.6 Type, make & capacity of instruments and pressure gauges installed on orderostatic testing equipment.
- 15.2.7 Type, make and capacity of NDT equipment.

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Note: Manufacturer shall submit documentary evidence of valid testing and calibration date of all machine equipment, instrument and gauges.

### **CERTIFICATES AND DOCUMENTS**

- 16.1 The manufacturer shall furnish to purchasers the following information along with the certificate of compliance stating that the pipe delivered has been found to meet the tender specification requirement.
- 16.1.1 Specified diameter, wall thickness, grade, process of manufacture & type of heat
- 16.1.2 Chemical aralysis, (heat & product) showing weight percentage of all elements, carbon equivale calues, metallographic inspection report.
- 16.1.3 Yield strength, ultimat tensile strengths & elongating test data, fracture test report.
- 16.1.4 Minimum hydrosta ressure and duration.
- 16.1.5 Non-destructive inspect on and test reports.
- 16.2 Final Documentation
- 16.2.1 A dossier shall be compiled concu rently with full record of the fabrication, materials, inspection and testing.
- 16.2.2 All items in the dossier shall be number nd bound in an A4 four post binder; contents shall include but not be limited to the Allow. **M**llowing (as applicable):
- 16.2.2.1 Front cover sheet detailing:
  - P.O. No.
  - **Project Title**
  - **Equipment Title**
  - Equipment Item No.
- 16.2.2.2 Index
- 16.2.2.3 Purchaser Release Note
- 16.2.2.4 Purchase Order
- 16.2.2.5 A list of all applicable codes, standards and specifications
- 16.2.2.6 All drawings "As-built" wherever legibility can be preserved, reduced to A3 and folded, where legibility cannot be preserved, drawings to be folded to A4 size and inserted into pre-punched plastic wallets.

16.2.2.7 NDT procedures

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16.2.2.8 All NDT/PWHT/ Hy	drostatic/ Performance	test reports
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### 16.2.2.9 Photocopy of Nameplate

- 16.2.2.10 Material chemical analysis and mechanical test certification
- 16.2.2.11 Final signed quality plan
- 16.2.2.12 Material test certificates
- 16.2.2.13 Mechanical design calculations
- 16.2.2.14 Procedure Qualification Records
- 16.2.2.15 Welding qualification Tests
- 16.2.2.16 Painting inspection certificates
- 16.2.2.17 Manufacturing Data Records (MDR)
- 16.2.2.18 **Jestallation Drawings and Procedures**
- 16.2.2.19 Operation and Maintenance Manual
- 16.2.2.20 Schedules of commissioning spare parts
- 16.2.2.21 Any other documents not specified above, but essential to make the Pressuré safety values o erational and maintainable
- 16.2.3 For all above documents ix (06) sets shall be submitted in clearly labeled 4 ring white hard cover binders. All socurtents smaller and larger than A4 shall be inserted into A4 pre-punched, top-opening plastic wallets with the project document number/title block clearly visible to the front.

### 17 **RESERVATIONS**

- 17.1 The supplier shall give due and proper notice of commencements of offered items fabrication and test under these specifications to the Purchaser / Third party Inspector appointed by SSGC.
- 17.2 The Purchaser reserves the right to delete, increase and for decrease the quantities of the material at the time of placement of order.
- 17.3 The Purchaser reserves the right to increase, decrease and delegate a quantity of all the items given herein the Schedule of Requirement.

### 18 LOCATION

The manufacturers shall be responsible to deliver and properly stack the pipe a purchaser's location, using its own manpower and machines.

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### 19 TRANSPORTATION

- 19.1 Handling loading and shipping procedures shall comply with the following API Recommended Practices for Transportation of Line Pipe:
  - API RP 5L1 Recommended Practices for Railroad Transportation of Line Pipe
  - API RP 5L5 Recommended Practices for Marine Transportation of Line Pipe
- 19.2 Packing method and materials shall adequately protect the pipe and coating, if any, amage during packing and transport. Recessed steel end protectors shall be

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PLANNING & DEVELOPMENT DEPARTMENT

# SUI SOUTHERN GAS COMPANY LIMITED

# INSPECTION CHECK LIST FOR BARE LINEPIPE

TENDER ENQUIRY NO.

APPENDIX-A

# PIPELINE CROSSING MALIR EXPRESSWAY ROAD AT KM 540-58.

SNI	SPECTION CHECK LIST (	➤ INSPECTION CHECK LIST (AS PER TABLE-18 OF API 5L 46TH EDITION)	OITION)		
S.No.	Description	Inspection Scope	Inspection Freque,	Acceptance Criteria As per Table-18 (API 5L)	
1	Forming and Welding	OD of Pipe Welding Speed, welding current and voltage	Twie poshift	Approved by the Inspector of owner.	
2	On-line Ultrasonic Test	Pipe body lamination. Spiral weld. Longituditional Weld.	100% 100% 100%	API 5L	
3	Visual Inspection	Dents offset of palte edges, height of relesseam, lamination undercuts, cracks, swe is and leaks.	All Pipes	API 5L	
4	Manual UT (Can Replace by X-ray)	Imperfection marked by auto reach end weld.	100%	API 5L	
гC	X-Ray (2% sensitivity)	Joint of Skelpt and weld and piral weld Minimum 8" distance for meach end.	100% 100%	API 5L	
9	Hydrostatic Test	Without Leakage Pipe body or w 'd eam	Once per heat 100%	Without Leakage As per API 5L Clause 9.4 & 10.2.6	
7	NDT (X-Ray or UT)	Weld Seam	100%	API 5L	
∞	Final Inspection	OD (Provinces) Thick ess Stricturess Stricturess A for roundness Pive end level Length Weight Visual Inspection	All Pipes	API 5L	



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PLANNING & DEVELOPMENT DEPARTMENT

# SUI SOUTHERN GAS COMPANY LIMITED

# INSPECTION CHECK LIST FOR BARE LINEPIPE

TENDER ENQUIRY NO.

APPENDIX-A

S.No.	Description	Inspection Scope	Inspection Fre ue cy	Remarks
. 1	On-Line UT	Inspection record Calibration	Once per shot	
2	Hydrostatic Test	Inspection record Pressure guage calibration	100%	
3	Repair for weld	O,	Once per shift Once per shift	
4	i-Pipe Burst test ii-Drop Weight Tear Test	As per specification As per specification	One specimen (Each lot) One specimen (Each lot)	
5	Final Inspection	n record v f roumness	Once per shift 100% 100% 100%	
9	Dispatch Inspection	Pipe Marking Pipe Storage Pipe Certific tes Pipe (ele se note Witnes K-Ray inspection A evie w all inspection	Once per shift Once per shift 100% 100% 100% All Pipes	

Note: All Test and Inspection report must be submitted by manufacturer in English language.





Spec. No. COT-SP	E-GE-0100
Page 1 of 18	Rev. 00



SUI SOUTHERN GAS COMPANY LIMITED (SSGC)

Noxop NICAL SPECIFICATION S
3 LAYER DE COATING



ASGM (T) Office-KT



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1 **GENERAL** 

Spec. No. COT-SPE-GE-0100 Rev. 00

### 1.1 Scope

The purpose of this specification is to describe the minimum functional and technical requirements for 3 Layer-PE coating application on Bare steel Line pipe at mill for buried pipeline.

### 1.2 Definitions

Purchaser means OWNER and CONTRACTOR means SUPPLIER/MANUFACTURER. This definition shall apply throughout this specification.

### 1.3 Erres or Omissions

Any arrors or omissions noted by the Contractor in this Specification shall be immediate, brought (during pre-bid queries at the time of tender process) to the attention of the Owner.

### 1.4 Deviations

All deviations to this specification shall be brought to the knowledge of the Owner in the bid and all deviation shall be shown in the documentation prepared by the Contractor.

### 1.5 Conflicting Requirements

- 1.5.1 In the event of conflict, inconsistent, ambiguity between the contract's scope of work, this Specification, National Codes. Standards referenced in this Specification, the Contractor shall refer to the Owner work decision shall prevail.
- 1.5.2 Some requirements in this specification may be an diffed by specific requirements in the Schedule of Requirements. In case of conflict the specific requirements supersede this specification.

### 1.6 Reporting Procedure

- 1.6.1 A reporting and documentation system shall be agreed between the Owner and the Contractor for the status of coating process, inspection, testing on shipment of the equipment/material to be supplied under this specification.
- 1.6.2 Manufacturer shall provide reports and summaries for performance and testing operations (after final TPI Inspection) in conformance with a manufacturing chedule approved by Owner.
- 1.6.3 Daily, weekly and monthly run summaries of all major aspects of the processes shall be provided as reports to the Owner.

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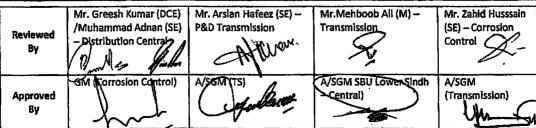
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### 2 ABBREVIATIONS/SYMBOLS

For the purpose of this document, the words and expressions listed below shall have the meanings assigned to them as follows:

ABBREVIATION	. <u>NAME</u>
AS	American National Standard Institute
ArO <sub>x</sub>	American Petroleum Institute
ASME	American Society of Mechanical Engineers
ASTM	ican Society of Testing and Materials
AWS	Amenia Welding Society
°C	Celsius (P -8 ce)
CA	Corrosion Allor and
CD Test	Cathodic Disbondment Test
CS	Carbon Steel
. D	Diameter
DIN	Deutsches Institut für Normung", meaning "German Institute for standardisation".
DWT	Drop Weight Tear Test
EMS	Environment Management System
EN	European Standard
ERW	Electric Resistance Welded
*F	Fahrenheit (Degree)
FBE Coating	Fusion bonded epoxy coating
Gr.	Grade







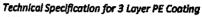




4.0000000000000000000000000000000000000	Spec. No. COT-SPE-GE-0100 Rev. 00
ABBREVIATION	NAME
HFW	High Frequency Welded
ISO	International Organization for Standardization
ITP	Inspection & Testing Plan
Lbs.	Pound
Lb.ft	Pound-Foot
A FP	Melt/Mass flow rate
mOx	Millimeter
MPS	Manufacturer Procedure Specification
NDT	Non Destructive Testing
Ni .	Nicke
NPT	National Vira Thread Tapered
OD	Outside Diameter
OHSAS	Occupational Health are Sofety Assessment Series
PE Coating	Polyethylene Coating
PQT	Procedure Qualification Test
PSL	Product Specification Level
R	Radius
Sa	Surface Abrasive
SAW	Submerged Arc Welding
Sch	Schedule
SMLS	Seamless
	•

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	Spec. No. COT-SPE-GE-0100 Rev. 00
<u>ABBREVIATION</u>	<u>NAME</u>
SMYS	Specified Minimum Yield Strength
SOR	Schedule of Requirement
SS	Stainless Steel
A.	Standard
TPO,	Third Party Inspector
UV	Ultra Violet
UT	Aral pnic Testing

### 3 CODES, REGULATIONS AND STANDARDS

- 3.1 Manufacturer shall meet or except the requirements of the latest edition of the following applicable codes, regulation of the standards, except as superseded herein.
  - ASME B31.8, Gas Transmission and Air Indtion Piping Systems
  - ASME B31.3, Process Piping
  - API 1104, Standard for Welding Pipelines and Leated Facilities
  - ASME Section V, Non-Destructive Examination
  - API 5L, Specification for seamless and welded steel pipe
  - API RP5L1, Recommended Practice for Railroad Transportation
  - API RP 5LW, Recommended Practice for Transportation of Line Pipe or Barges and
    Marine Vessels
  - API RP 5L9: External Fusion Bounded Epoxy Coatings of Line Pipe
  - ASTM 06.02: Paint Products and Applications, Protective Coatings; Pipeline Coatings
  - ASTM G8: Standard Test Methods for Cathodic Disbonding of Pipeline Coatings
  - ASTM G14: Standard Test Method for Impact Resistance of Pipeline Coatings (Falling Weight Test)

				••
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- ASTM G17: Standard Test Method for Penetration Resistance of Pipeline Coatings (Blunt Rod)
- ASTM G42:Standard Test Method for Cathodic Stripping of Pipeline Coatings at High
- DNV RP-F102: Pipeline Field Joint Coating and field repair of line pipe coating.
- DNV RP-F106: Factory Applied External Pipeline Coatings for Corrosion Control
- DIN 30670, Polyethylene coatings on steel pipes and fittings Requirements and sting
- 21809-1, Petroleum and natural gas industries External coatings for buried ed pipelines used in pipeline transportation systems — Part 1: Polyolefin coatings (3-1 PE and 3-layer PP)
- **ASTM D1505, 1** ard Test Method for Density of Plastics by the Density- Gradient Technique
- DIN 50049, Inspection Decements for the Delivery of Metallic Products
- ISO 8501 01, Preparation of s bel substrates before application of paints and related products — Visual assess per surface cleanliness — Part 1: Rust grades and preparation grades of uncoated state substrates and of steel substrates after overall removal of previous coatings.
- ISO (8502 6/9), Preparation of steel substrates of re application of paints and related products - tests for the assessment of surf eanliness. Extraction of soluble contaminants for analysis.

### **SCOPE OF SUPPLY**

The supplier shall guarantee that the design, engineering and specifical on extruded polyethylene coating shall be in strict compliance and conformit with this specification including DIN 30670 latest editions.

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### 5 REFERENCES AS APPLICABLE SPECIFICATION

- 5.1 International Standard
  - German Standards Institute, DIN 30670.
  - EN ISO 21809-1 for Factory/Plant applied coating as a minimum.
- 5.2 The above standard defines the requirement and test methods relating to polyethylene sheathing applied at manufacturer's works, extruded, molten on and homogeneous to stead pines for buried installation. Its purpose is to provide quality assurance of the sheat its.
- 5.3 Specifications and requirements given in this document for specification of Extruded Extended Polyethylene coating of line pipe.

### 6 SPECIFICATIONS FOR SLPE COATING

- 6.1 Coating Material
- 6.1.1 Bidder/Manufacturer shall to mit the purchase sources of coating raw material including their technical data sheet and test certificates (Third Party Lab) for epoxy resin, Adhesion & Polyethylene.
- 6.1.2 High density polyethylene for operating the perature up to 80°C.
- 6.2 Coating Thickness
- 6.2.1 Depending on the nominal size as per SOR, there are different values for the total coating thickness as below.

Nominal Size	Minimum coating thickness
(mm)	
≤ DN 100	2.5
> DN 100 ≤ DN 250	2.7
> DN 250 < DN 500	2.9
≥ DN 500 < DN 800	3.2
≥ DN 800	3.7

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- 6.2.2 The exterior pipe coating applied by extrusion coating process shall be a (3) layer system comprising of the following:
- 6.2.2.1 Thermosetting, fusion bonded epoxy primer of minimum 300 microns (0.300 mm) thickness.
- 6.2.2.2 An adhesive: layer of a copolymer of 300 to 450 microns (0.300 to 0.450 mm) compatible for polyethylene coating.
- 6.2.2.3 Outer layer of fully stabilized polyethylene of high density for sheathing in accordance with standard DIN 30670.
- 6.2.2.4 The yethylene resin used shall be virgin and un-recycled and density range shall n 0 )4 to 0.951 grams/cubic centimeter in un-colored and unfilled condition.
- 6.2.2.5 With color and filling it shall be equal to or greater than 0.95 gram/cubic centimeter to ASTM D1505
- Application of 3 Layer 6.3 Pa Coating Process (Type-S) be through a continuous extrusion process to give a homogenous sheathing win following requirements as a minimum.
- 6.3.1 Surface Preparation
- 6.3.1.1 Prior to grit blast cleaning, the pir s hall be dried. .
- 6.3.1.2 The entire external surface of the hall be grit blast cleaned to the standard degree of cleanness from Sa2-1/2 7 on accordance to ISO 8501-01 (S.I.S. 05.59.00)/ISO (8502-6/9).
- 6.3.1.3 All pipes surface conditioning shall be carried out as specified minimum and the bidder shall provide details of standard of cleanless at will be applied and shall provide a copy of the Standards,
- 6.3.1.4 Following blast cleaning and prior to external coating a plication, the external surface of the pipe shall be inspected for steel defects and qua of blast finish. Any pipe with dents, gouges major laminations or other defects while iected. Surface profile shall range from 50 to 80 micron or as advised by FBE primer m nufacturer for 300 microns FBE application.
- 6.3.1.5 All pipes shall be coated in any case, (within 4 hours) of Blast cleaning and formation of visible rust.
- 6.3.1.6 Before application of epoxy primer, the surface to be coated shall be heated to a temperature suitable for the process and spray washed with solution of Oakite 33 (phosphoric acid) or to be specified by the bidder and spray rinsed with clean hot water at a suitable temperature to remove all acids. Coating applicator shall be

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responsible for complying with local and international HSE regulations for using the chemical treatment materials including disposal of the used chemicals.

- 6.3.1.7 As the surface pre-treatment is a part of PQT & production and also used prior to application of 3 layer PE coating according to International Standard DIN 30670 and EN ISO 21809-1 clause #10.1.4 (8501-01) and (8502-6/9). The blast cleaned pipe surfaces shall be pre-treated with phosphoric acid in accordance with manufacturer specification.
- 6.3.1.8 Preheating of pipe (required prior to application of primer, adhesive and polyethylene) and immediate cooling (with water after polyethylene application) is all be in accordance with the manufacture requirement. Bidder to specify the leaving and cooling temperatures applicable to the manufacturing of the product quoted.
- 6.3.1.9 The manufacturer of coating while selecting primer shall also ensure high resistance against diffusion and disbonding between steel primer and adhesive even under extreme conditions of elevated gas operating temperature and high cathodic protection status to be at the tender specifications.
- 6.3.1.10 The fusion bond powder any primer shall be applied by the electrostatic/airless spray method.
- 6.3.1.11 Immediately, following the application the final layers of adhesive and polyethylene shall be applied.
- 6.3.1.12 Bidder shall submit along with the hill, original printed detailed technical specifications, the process of manufacturing details of cleaning of pipe, type and model and manufacturer's name of primer adhesive and polyethylene and their storage conditions prior to application and talking ses of primer, adhesive and polyethylene and coating application details. Wanter of the product with the manufacturer's name for the offered materials are to be clearly specified and referenced/ endorsed in the original printed technical literarule submitted with the bid.

### 6.4 Coating Property

6.4.1 Bidder shall provide with the bid a list of the following properties of the offered coating or comparison to the latest edition of DIN Standard 30670 but not limited to:

### 6.4.1.1 Peeling Resistance (Bond Strength)

At (20±5) °C (Min 150 N/CM); At (50±5) °C (Min 100 N/CM); At 70°C (Min 60 N/CM); At 80°C (Min 20 N/CM); Peeling Resistance value \_\_N/CM after hot water immersion test as per DiN 30670 & EN ISO 21809-1 Standards.

### 6.4.1.2 Resistance to Impact

Resistance to impact shall be in accordance with code DIN 30670.

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6.4.1.3 Resistance to Indentation

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2.5 Kg weight/24 hrs./70°C with 1.8 mm penetration probe;

(Test Method DIN 30670) - Value 0.004 inch (Max.)

### 6.4.1.4 Coating Resistance

Coating resistance shall conform to standard DIN 30670. Bidder shall submit along with the bid, the electrical coating resistance for the temperatures mentioned below:

• (≥ 108) OHM m² at 23°C

### 6.4.1.5 Lat Aging

beat aging resistance shall be according to DIN 30670.

### 6.4.1.6 UV-Resistance

The ov-resistance shall be as per DIN 30670.

### 6.4.1.7 Cathodic Disbon ing

Cathodic disbondings di conform to standard DIN 30670.

- ASTM G8, 30 DAYS/23<sup>p</sup> Oot greater than 10 mm
- ASTM G8, 30 DAYS/50
- ASTM G42, 30 DAYS/60°C tot reater than 15 mm
- ASTM G42, 30 DAYS/80°C not rea er than 15 mm

### 6.4.1.8 Elongation (Test Method ASTM 638)

Value = 600% (Minimum)

6.4.1.9 Bidder shall confirm that the above properties provided in the bid are for the high density polyethylene coating for operating temperatures up to 80 °C and coating thickness as per Table in section 6.2.

6.4.1.10 Elongation test method shall conform to standard DIN 306/0

### 6.5 Physical and Chemical Properties

6.5.1 The coating bonding should prevent relative displacement between coating and pipe surface and allow sound field joint coating. Mechanical resistance of coating should be sufficient to prevent physical damage to the coating during shipment, storage and laying. Excellent aging resistance against thermal oxidation and weathering to preclude coating embitterment during storage, pipe laying and service.

6.5.2 The coating at the pipe extremities with 150 mm±15mm cut back length shall meet the

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requirement of bevel angle of not more than 20 degree for the coating applied and on the cut back length for 20 mm length on the bare pipe portion beyond coating edge FBE shall be applied.

- 6.5.3 The coating shall meet the contract specifications for the following properties not limited to DIN 30670 and shall conform to the requirements of standard DIN 30670 (latest edition) as a minimum unless otherwise specified.
- 6.5.3.1 Resistance to indentation
- 6.5.3.2 Agi rander exposure to light
- 6.5.3.3 Freedom from porosity
- 6.5.3.4 Elongation ue to tearing
- 6.5.3.5 Resistance to in fact
- 6.5.3.6 Resistance to peeing stripping
- 6.5.3.7 Specific sheathing resignation
- 6.5.3.8 Thermal aging
- 6.5.3.9 Cathodic disbonding
- 6.5.4 Requirement relating to the surfact of the steel pipe, such as degree of cleanliness of the pipe surface and pickling to be carried out in accordance with the stipulations in DIN 30670.
- 6.5.5 Requirement relating to sheathing, i.e. minimum localized coating thickness, freedom from porosity, resistance to peeling (bond strength) tc. should meet the minimum requirements of related sections of standard DIN 35.70 are the contract specifications.

### 7 INSPECTION AND TESTING

### 7.1 General

The tests shall be carried out by the manufacturer and be generally a cepted and recognized by material testing institutions. The compliance with the equirement relating to the pre-treatment of the pipe, in accordance with Section 4.2.1 and to the free compliance with section 4.2.1 and to the free composity in accordance with Section 4.2.2 and to the resistance to peeling (Bond / strength) in accordance with Section 4.2.3 of DIN 30670, Edition 1991 or the respective sections of latest edition. The compliance with the requirements in accordance with Section 4.2.4 to 4.2.9 of DIN 30670, shall be demonstrated by the manufacturer by means of a single test for each composition of the plastic material.

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### 7.2 Testing of the Coating Thickness

For this purpose, at-least 10 (ten) measurements shall be made at locations uniformly distributed over the length and periphery of the pipe. The coating thickness shall be measured with the aid of non-destructive operating instrument.

### 7.3 Holiday Detection Test

- 7.3.1 Holiday Detection test shall be as per Annex B of ISO 21809-1:2011 or the respective section of the latest edition.
- 7.3.2 The test shall consist of detecting any porosity of the coating using a scanning electrode energized by high-arc-voltage. Defects shall be detected by a spark occurring between the geel and the electrode at the defect accompanied by a sound and/or light signal.
- 7.3.3 The k stage shall be set at 10 kV/mm based on the minimum total coating thickness. The votage shall not exceed 25 kV.
- 7.4 Test Certific de
- 7.4.1 Test/inspection entificates to be provided by the manufacturers; however, the Purchaser or its regions intative shall have the right to inspect and/or to test and check the goods to confirm or a performity to the specification.
- 7.4.2 Inspection Certificate by inspector shall conform to Standard DIN 50049 (latest edition), and shall be in English Units. The inspection certificates to be submitted to the Purchaser shall state that the piper have been coated in accordance with DIN Standard 30670 (latest edition) as a minimum and in conformity with the specifications at temperatures specified in DIN 30670 and to operating temperature 80°C. Each such certificate shall show the contract number, the number and dimension of pipe coated, the date to which tests and inspections were performed and the name and signature of person(s) responsible for such tests. Six copies of each such certificate shall be submitted.
- 7.4.3 The inspection and tests may also be conducted by the Pu charler or its representatives on the premises of the Supplier. All reasonable facilities and as stonce including access to raw material used, its specification and test certificates (orginal) opies), drawings and production data shall be furnished to Purchaser or its represent aveat no charge to the Purchaser. Relevant clauses of General Term & Condition and Special Terms & Conditions of the tender requirements are also to be referred.
- 7.4.4 Any inspected or tested pipe lengths fail to conform to the specification, the urchaser may reject them and the Supplier shall repair or re-coat these pipe lengths at no charge to the Purchaser.

7.4.5 Nothing in this clause shall in any way release the Supplier from any guarantee or other

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responsibilities and obligations in this respect.

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### 8 RECOMMENDATION FROM SUPPLIER/BIDDER

## 8.1 Coating Material Required for Repair or Injurious Damages & Repairing Process The Supplier/Bidder shall provide recommendation with respect to coating material required for repair of Injurious damages, with detailed process of repairing.

### 8.2 For Cap patible Joint Coating Material

The Supplier Bidder shall provide recommendations, specifying the compatible joint coating mater accounted to be utilized for joints coating purposes and requirement such material for each girth weld, including losses.

### 8.3 For Handling, Stora e & tacking of Pre-coated Line pipe

The Bidder/Supplier Shall povide their recommendations for handling, storage and stacking of coated line pipt in uncovered yard to avoid possible damage to the coating at ambient temperature up to 50°C.

### 8.4 For Field Bending of Pre-coated Live piece

The Bidder/Supplier shall provide their ecommendations for field bending of coated line pipe during pipeline construction.

### 8.5 For Field Hydrostatic Testing of Coated Pipe

The bidder/supplier shall provide their recommendations on field hydrostatic yield testing of the coated pipe to test pressures corresponding to 100 to 105 percent (design as per pressure class rating 150#, 300#, 600# & 900# according to Pipe size mention in SIOR) of SMYS of pipe material. The Bidder/supplier shall insere and confirm that coating of the pipe shall have no impact on all properties of coating after aforesaid field testing.

### 9 MARKING

- 9.1 For marking of the coated line pipe on the outside/inside surface of each length of pipe shall be as follows:
- 9.1.1 These shall be paint stenciled in specific colors in clear bold lettering of 1" on outer surface of each pipe in the English language. The difference in wall thickness shall be indicated in colored ring on one end of the pipe.
  - Pipe Manufacturer's name
  - API Monogram

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- Type of Steel (Carbon Steel)
- Process of Manufacturer of Pipe & Coating
- Order No.
- 9.1.2 Pipe Serial No. and Heat No of each coated pipe: This is to be serially numbered on outside surface and the number shall appear on the inside surface at one end. The serial No. of pipe should start from 10,001.
- 9.1.3 Size of Diameter: This shall be stenciled inside/outside surface of the each pipe.
- 9.1.4 Wall Thickness: This shall be stenciled on the inside surface of each pipe at one ends and outside surface.
- 9.1.5 Margial Grade: This shall be stenciled on the inside surface of each pipe at one end and outside surface.
- 9.1.6 Length of J.pt: The exact length of each pipe is to be stenciled on the inside surface of one ends are outside surface.

### 10 TEMPORARY M LOCATING OF UNCOATED PORTION OF LINEPIPE

Temporary coating of the uncoated pipe ends shall be done with a clear varnish and easy to surface cleaning in first curing pipe construction for weld joint coating.

### 11 BEVEL GUARDS/END CAPS

Bevel guard provided by the bare line page pagufacturer should be removed and stored properly before application of 3LPE coating and then furnish these bevel guards to protect bevel ends of pipes after application and also supplier shall ensure for arrangement of strengthen end cap fixing at both and of pipe at mill prior to Ex-works deliver to make sure the line pipe safety during long strate in an open environment during shipment or storage at Buyer's locations. Also the and cap details shall be provided with bid.



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Transmission

Mr. Zahid Husssain (SE) – Corrosion Control

Approved
By

GM (Oprrosion Control)

Reviewed

Ву

Mr. Greesh Kumar (DCE)

/Muhammad Adnan (SE)

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## LASHING AND SHIPMENT ETC

- 12.1 The Supplier shall be responsible for and shall provide as part of the work, all services and functions for coating of line pipe and related to coated line pipe handling, loading, unloading, lashing and securing in ship's holds charges and expenses related thereto shall be included in the bid price.
- 12.2 The Scoplier shall exercise all due care and diligence in ensuring that the coated line pipe is a proported from its premises to the port of loading and is loaded in the ship's holds into manner so as to avoid all possible damage to the line pipe and to the coating on the line pipe.
- 12.3 The Supplier shall or the resure that rail/road transportation to the port of loading and loading in ship's hold so form strictly to standard laid down in API RP 5L1 and API 5L5, respectively.
  - 12.4 The Supplier shall be responsible for all damages/losses to the line pipe and to the coating on the line pipe during page/rail and marine transportation and or loading on ship's holds and shall pay the Purchaser III direct costs which may be incurred, including correction or removal or replacement of the line pipe or to the coating and including compensation for related professional separate.

### 13 MANDATORY REQUIREMENTS

- 13.1 Bidder shall submit a valid API accreditation certificate with the bid and confirming that it is active on API website.
- 13.2 The bidder shall submit the valid copy of following certifications
  - API 5L (Pipe Manufacturer's registration)
  - API Specs Q1 / API ISO 9001
  - ISO 14001 (Environmental Management System)
  - ISO 45001/18001(OSHAS)

All the above certificates shall cover the scope of 3 Layer PE external coatings application on steel line pipe.

- 13.3 API monogram has to be affix/stenciled on each length of pipe consignment.
- 13.4 The manufacturer shall provide documentation with the bidding documents for the inhouse quality control programme which is strictly adhered to the production of all quoted manufactured products. This programme must adhere to manufacturer's

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registration with ISO 9001. Offers not conforming to this requirement will be rejected.

### 14 SALES TRACK RECORDS & PERFORMANCE CERTIFICATE

- 14.1 The Bidder shall submit the supporting documents of sales track record for the offered coating including copies of purchase order/satisfactory certificate of five (5) different end users related to Oil & Gas Sector with similar requirement along with their email (email address of end user's company domain and not the commercial domain like Yahoo, Gmail, or Hotmail, etc.), fax, telephone, address and name of persons to contact to whom they have supplied the offered coating within the last five (05) years and have been successfully operated.
- 14.2 Simply submitting a list of customers, to whom the manufacturer has been supplying the contine will not meet the intent and purpose of this requirement. Failure to comply with this repairement may result in rejection of the bid.

### 15 OTHER INFORM ATI IN REQUIRED

- 15.1 The bidder is required to sentially provide in the bid the following information:
- 15.1.1 The size and delivery schedule of other confirmed orders (both in terms of diameter, wall thickness and meters) during the delivery schedule period of this tender and does not overlap with delivery schedule of SSGC.
- 15.1.2 Potential unconfirmed orders.

### 16 FINAL DOCUMENTS SUBMISSION

- 16.1 Bidder/Manufacturer shall submit following detail documents during/after production:
- 16.1.1 Daily/Weekly/Monthly Progress reports after TPI contineation.
- 16.1.2 Bidder/Manufacturer shall submit following det il focuments; SSGC will review/approve and nominate TPI accordingly.
  - Manufacturer's Quality Inspection and Testing Plan (QITP).
  - Manufacturer's Procedure Specification (MPS).
  - Inspection Testing Plan (ITP).

Further, approved MPS & ITB will submit prior to start of production of pipe for SSGC's review and approval.

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- 16.1.3 During Manufacturing and testing process, those defective coated pipes which failed to comply and are not acceptable as per standard DIN 30670 in all aspect. Vendor shall share the list of those pipes No./Heat No. after inspection of Third Party inspector.
- 16.1.4 MTC: The Supplier shall submit six copies of inspection and MTC to the Purchaser after placement of order and before coating process. The Purchaser has right to reject the consignment if bidder has failed to provide MTC.

16.1.5 Bidder shall submit manufacturing conformance certificate along with consignment.

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PLANNING & DEVELOPMENT DEPARTMENT

### SUI SOUTHERN GAS COMPANY LIMITED

### INSPECTION CHECK LIST FOR 3LPE COATING

APPENDIX-B

TENDER ENQUIRY NO. \_\_\_\_

## PIPELINE CROSSING MALIR EXPRESSWAY ROAD AT KM 540+385

### > INSPECTION CHECK LIST (3LPE COATING)

Inspection and Tests to be carried out for procedure Qualification of Linepipe Coating for each pipe diameter.

An Clark are to		# The some control of the control of	
S.No.	TPesco con	Acceptance Cri	eria de la companya d
		Accepted Value	No. of Test
1	BEFORE CLEANING	<u> </u>	4 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Oil Contamination	100 indication of oil contamination	10
2	AFTER CLEANING	0.	
	Cleanliness	Sa 2 /2 to Sa - 3.0 in accordance SO 8501-01 (S.I.S	10
	Profile	D,	10
3	COATING THICKNESS	<b>6</b>	
	FBE	300 micron - 450 micron	24 (12 x 2 pipes)
	FBE + Adhesive + PE	Minimum 2.5 mm at Spiral / Longituditional weld seam	2 (12 x 2 pipes)
4	HOLIDAY		
	FBE	Smooth with no surface defects	2
	FBE + Adhesive + PE	Smooth with no surface defects	10
5	ADHESION/PEEL STRENG	ТН	
	FBE	As per manufacturer's recommendation	2
	FBE + Adhesive + PE	Zone A of Fig 1 DIN 30670 or as recommendation by manufacturer	5 (Random)





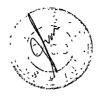
PLANNING & DEVELOPMENT DEPARTMENT

### SUI SOUTHERN GAS COMPANY LIMITED

### INSPECTION CHECK LIST FOR 3LPE COATING

APPENDIX-B

6	PENETRATION (IDENTATION)		
	2.5 Kg weight / 24 hrs. with 1.8 mm penetration probe	0.004"(max.) at 70°C	10 ( 2 x 5 pipes)
	FBF + A thesive + PE	Original value	2
7	FLEXIBLE YEARD TEST		
	FBE	No Cracking / Disbondment pinholes	2
8	CATHODIC DISBONALIG		
	30 days/ 23 °C ASTM G8	Not greater than 10 mm	
	30 days/ 50 °C ASTM G8	Not greater than 15 mm	
	30 days/ 60 ℃ ASTM G42	We greater than 15 mm	
	30 days/ 80 ℃ ASTM G42	Not greater than 15 mm	
9	ELONGATION		
	(Test method) ASTM 638	Minimum 600	
Vote:	All Test and Inspection report	must be submitted by manufacturer	n English language.







## Sui Southern Gas Company Limited

Health, Safety, Environment & Quality Assurance

## HSE&QA AWARENESS FOR SUPPLIERS AND CONTRACTORS (Revised in 2023)



Always be progreye about safetyl

Report Hazard before it result in an Accident

## If it's UNSAFE!

- ✓ Report it
- ✓ Remove it
- ✓ Replace it







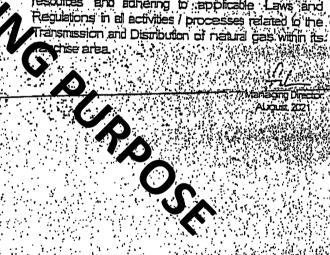
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Sui Southern Gas SGC Company Limited.

### HSE & QA-IMS POLICY

SSGC is committed to the Health and Safety of all its Employees & Stakeholders preservation of Environment and achieving Operational excellence by improving Quality of products / services along with efforts to promote Safety Culture in the Company. Communicati improvement of HSE and OA performance by reculoning potential hazards to prevent injuries and illness is our key priority. It also includes communication. consultation and participation on HSE and OA objectives and targets with stakeholders, conserving resources and adhering to applicable Laws and Regulations in all activities / processes related to the







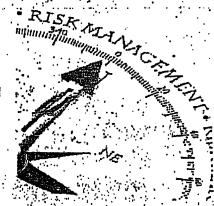
### PURPOSE

The purpose of this procedure is to identify the context of the organization, assess the risks and opportunities and establish controls associated with all the activities undertaken by the company to

SSGC existing facilities/installations

5.16.15年7年大学的特別的開展中國外部企業中的開始的特別的

- Any routine/non-routine activity, performed within permanent locations or outside permanent locations of SSGC, that requires prior permit/safety analysis to identify and mitigate safety risks.
- Any new project
- Covering all the activities performed by SSGC taking into consideration of compliant, obligations, risks & opportunities within the scope, external and needs and populations of relevant internation, pec ations of relevant interested parties.
- Providing great e employees in relation to hazard identification, risk assessment and par control in respective areas.
- identification, control, morning and management of environmental aspects



This procedure is applicable to the identification of occupational health and safety hazards and associated risks environmental aspects and impacts a standard with activities, processes and equipment related to risks. environmental aspects and impacts a sociated with activities, processes and equipment related to permanent locations or outside permanent locations of SSGC, that requires prior permit/safety analysis to

### 3. A DEFINITIONS & ACRONYMS

- a. HAZARD: Source or situation with a potential for harm in terms of injury or ill health, damage to property damage to workplace environment, or a combination of riese.

  RISK: Combination of probability of occurrence of a hazarous event or exposure and the resulting
- OPPORTUNITY: Opportunities can arise as a result of a situation favorable to achieving an intended result, for example, a set of circumstances that allow the organization to a cast customers, develop new products and services, reduce waste or improve productivity. Actions to ac include consideration of associated tisks. opportunities can also SWOT: Strength, Weakness, Opportunity & Threat. d.
- RISK MANAGEMENT: The set of control measures used to reduce or eliminate sec
- RISK ASSESSMENT: Risk Assessment is a systematic approach to hazard identifi overall process of estimating the priority of risk and deciding significance of risk.
- RISK ASSESSMENT METHODOLOGY: Risk priority shall be defined by the risk assessment matrix. g. Hazards related to applicable legal requirements will fall in the high risk category. HIRA: Hazard Identification and Risk Assessment. h.
- EAIA: Environmental Aspect and Impact Assessment.
- IEE: Initial Environment Examination. ·].:
- EIA; Environment Impact Assessment. k.
- ILL HEALTH: Identifiable, adverse physical or mental condition arising from and/or made worse by a I. OHS&E: Occupational Health, Safety & Environment. m.
- PTW: Permit to Work, n.
- MOC: Management of Change. ٥.
- MOC Owner. The employee who initiates the MOC.
- JSA: Job Safety Analysis.
- EXECUTING DEPARTMENT: It refers to the department performing the work or is responsible to get the





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#### 4.1 Corporate HSE&QA In-charge

- Managing OHS&E risks and their controls.
- Reporting to Senior Management on OHS&E related issues.
- Providing support to corporate HSE&QA team and zonal representatives.
- Liaise with zonal HSE team leaders/HSE&QA representatives for implementation of this procedure.

#### 4.2 Zonal HSE team leaders

- Carrying out HIRA, providing and utilizing resources to identify and review OHS&E risks and implementing their controls in consultation with corporate HSE&QA team.
- Ensuring that employees, contractors and visitors have sufficient knowledge related to OHS&E.
- Maintaining cords of the OHS&E with the help of local HSE&QA team.
- his procedure. Liaise with corporate HSE&QA team if required.

- Coordinating with zonal HSE team leader for carrying out HIRA and EAIA in their zones. Liaise with corporate HSE OA team and zonal HSE team leader for OHS&E.

  Reviewing/monitoring HIFA and EAIA in their zones and providing input on any changes.

Departmental Head of Executing Department

Acquiring PTW for any activity that proper permit to identify and miligate safety risks. Acquiring PTW for any activity that Ensure implementation of JSA for jour performed outside SSGC permanent locations.

#### 4.5 Employees

Participating in the identification and assessm dS&E risks when required by either Zonal HSE team leader or HSE&QA representative.

#### 4.6 Visitors & Contractors

Identifying and reporting any risk or hazard at any location of SSGC temporary locations during project executions.

#### DECISION MATRIX

Type of Risk/Hazard Assessment	Methodology	Shonsibility_
HIRA	Periodic risk assessment of SSGC's existing facilities/installations such as Head office, Headquarters, Regional offices etc.	Zona HSE team
PTW	On-site Risk assessment (for Permanent Locations) for any routine/non-routine activity that requires prior permit to identify and mitigate safety risks.	nead/Confractor executing the task/activity
) JSA	On-site Risk assessment (for Field Locations) for any routine/non-routine activity.	requiring PTW Departmental head/Contractor executing the field activity





MOC

Risk assessments for new Projects, major. changes or modifications in existing designs' and infrastructure. .

MOC owner.

Risk Assessment and Management Procedure is divided into five sections based on the type of risk

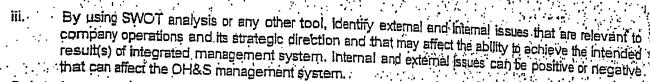
- Section 1: Context of the Organization.
- Section 2: Hazard Identification and Risk Assessment.
- Section 3: Permit to Work.
- Section 4: Job Safety Analysis.
- Segan 5: Management of Change

#### Section 1 Context of the Organization

### 6.1. Context of the Organization

- Management defines scope npany services and its boundaries considering the internal and external issues of the organization
- In consultation with HSE&QA, Management & Zonal Heads identify external & internal interested parties and maintain its list with needs & experien pns. Interested parties are those stakeholders who receive company services, who may be impact em, or those parties who may otherwise have a significant interest in the company. Interested parties in

Interested Parties	Requirements
Board of Directors	Good financial performance, legal compliance/avoidance of
Law Enforcers/Regulators	Identification of applicable dulory and regulatory requirements for the products and vices provided and understanding of the requirements.
Customers	Value for money, quality service, factuation and quick response.
Bank/Finance Employees	Good Financial Performance.  Professional development prompt
Insurance Community	No claims/prompt payment/risk management.  No complaint relating to: noise position.
External providers (Vendors/Suppliers)	pollution, waste.  Prompt payment as per agreed terms, health and safety, long-term working relationship.
Trade Unions	Compliance of local labor laws.



#### 6.1.1. Internal issues could include in risk & opportunity assessments, but are not limited to: .

Operations spread in two provinces

Complex transmission and distribution network.

C. Succession planning.

d. Contractual relationships.

of reliable, qualified and competent workforce

Staff ret

## 6.1.2. External Issues could include in risk & opportunity assessments, but are not

Political: Government policies, political stability, International trade agreements etc.

Economic: Fuel/utility pri eash flow, credit availability, exchange rates, tariffs and inflation, general taxation issues etc.

Social: Consumer buying patter religious issues, demographics et Oducation level; advertising and publicity, ethical &

Technological: Intellectual propert issues, software changes, internet, technology legislation, associated/dependent technology ä.

Legal and regulatory: Consumer profes Industry-specific regulation and permits, trade union regulations, employment law, inte hal legislation, human nghts/emical issues

đ. Environment: Customer demographics and el

Government: The directives from Prime Minister g. of Petroleum (energy division) regulatory bodies like OGRA, SEPA & BEPA etc.

Ensuring the policy and objectives are established for t and are compatible with the context and strategic direction of be

The management shall monitor and review information about the issues during the management review meetings.



ays, be proactive about safety!

Procurement Dept



#### Section 2 Hazard Identification and Risk Assessment

## I. Hazard Identification and Risk Assessment

The Zonal HSE team leader in consultation with local HSE&QA representatives plan and initiate the HIRA and EAIA process. The assigned team must be competent and have enough knowledge of the entire process. Cross functional teams are recommended for such activity to cover all aspects during assessment. The record of OHS&E risk assessment is maintained in Hazard Identification & Risk Assessment Form (\$SGC-IMS/CRM-F-01). The identification/assessment process shall take into account:

- tipe & non routine activities, any emergency situations.
- of all persons having access to the SSGC permanent and temporary locations.
- hevior, capabilities and other human factors. Designing A work processes. Material in use
- Infrastructure e pent and materials at the workplace or project site, whether provided by organization or o pers
- Changes or propose ges in the organization, its activities or materials. Fabrication, installation a commissioning.
- - Handling & disposal of was
- Purchase of goods & service
  - Any applicable legal obligations related to risk assessment and implementation of necessary controls.
- Before commencement of any new see
- Periodic Review for updating the existing Ird identification and risk assessment information

#### At SSGC, we adapt five steps of risk a

- Step 1: Identify the hazards.
- Step 2: Decide who might be harmed and how.
- Step 3: Evaluate the risks and decide on precautions.
- Step 4: Record your findings and implement them:
- Step 5: Review your risk assessment and update if necessary

#### Risk Assessment Matrix

Risk assessment should be carried out as per

RISK Pri	Ority	var as per asses		bility	
C		Very Likely	Likely Limit (1991)	Unlikely	Very Unlikely
o n s	Catastrophic				Medjum
a a	Significant			Medium	Medium
n .	Harmful		Medium	Medjum.	
5	Negligible	Madium	Medium		





	HAZARD CONSEQUENCE RATING TABLE
Catastrophic	Hazard may cause death or total loss of one or more bodily functions. In
Significant	Hazard may cause severe injury, illness or permanent or partial loss of one or more bodily functions (e.g. prolong exposure to asbestos resulting
	Disorder), or serious property damage, loss that may result in disruption of SSGC core activities.
Haffy	Hazard may cause a reportable incident i.e. an incident that results in the employee being unable to undertake their normal duties and may need medical treatment, or property damage, loss that result in partial disruption of SSGC core activities.
Negligible	Hazard may cause minor injury, illness or property damage, first aid statement is required only, very low financial loss

,	Control of the second	PROS ELITY RATING TABLE
٠	Very Likely	Exposure to haz (d) kely to occur frequently. Similar incidents reported
		Exposure to hazard likely to cour but not frequently. Similar incidents reported once in last 5 years passed.
	Unlikely	Exposure to hazard unlikely to be ur
	Highly Unlikely	Exposure to hazard so unlikely that the easymed that it will not the
٠		

٠١			بابغ
		RISK PRIORITY TABLE	: 1
٠	Risk Priority	Definitions of Priority	ŀ
-		Situation is considered critical, stop work immediately or consider cessation of this operation/task.  Must be fixed ASAP, Zonal HSE team leader should take immediate actions.	
	Medium	Is very important, must be fixed within two weeks, Zonal HSE team leader considers short term and/or long term actions.	
-	Low	Is still important but can be dealt with through scheduled maintenance or similar type of action However, if solution is quick and easy then fix it immediately. Review and/or manage by routine procedures.	
•	在自己的 经存货 电电流电流	p. Doddites.	i







### Section 2 Hazard Identification and Risk Assessment

#### iii. Risk/impact Assessment Outputs

The output of risk/impact assessment may include the following:

- Identified operations of all hazards/aspects and risks/impacts associated with company activities/system etc.
- Classification of risk/impact.
- Description or reference to control the risks/impacts.
- pilion or reference to monitor the risks/impacts.
- competency and or training requirements.
- etting improvement objectives and programs for its achievement

The risk/impact measures identified shall include controls such as termination/elimination, treatment of the risk/impact and substitution of risk by suitable means and where required tolerated as long as it meets local laws/legislation.

Setting objectives and argets.

Training needs identification

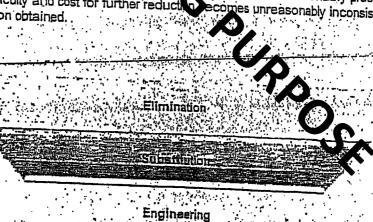
Termination Use output of risk/impac

- Terminating the risk/impact
- Facility engineering control.
- Emergency Preparedness.

f. Administrative controls.
g. Insurance.

The ultimate requirement is to reduce the risk/impact to a level as low as reasonably practical (ALARP) is where the trouble, difficulty and cost for further reduction ecomes unreasonably inconsistent to the es unreasonably inconsistent to the additional risk reduction obtained.

iv. Risk Control



Administrative



The hazards and risks are controlled through 'operational controls' by considering the following hierarchy Elimination: The best way to control a hazard is to eliminate it. This can be achieved by making changes to the work process so that the task is no longer carried out, or by physically removing the hazard altogether. Elimination is the most effective way to control hazards and should be used

Substitution: Substitution is the second most effective method for controlling hazards and risks similar to elimination but involves the substitution of one higher priority risk by another lower priority

Engineering: Engineering controls are implemented by making changes to the design of an equipment or process to minimize its hazard. Engineering controls are based on the concept of "Doing the first time". Departments shall incorporate this concept during planning phase of any sess and must seek out for best possible solution in terms of OHS&E.

Admin strative: Administrative controls involve making changes to the way in which people work and promoting safe work practices via education and training. Administrative controls may involved operating procedures, good housekeeping practices, emergency response in n as fire or employee injury, and personal hygiene practices.

Personal Protective ipment (PPE): Use of PPE will kick-off where no other controls stated

ld be properly identified for specific procession.

<u>. s</u>	ystem & work area Hazards	
· . <u>! Ac</u>	ess / Egress Obstructions	Likely Consequences
Ası	phyxiate Gas (CO2 fire suppression)	Thury, mos and falls that the sales are
Bui	ied Cables	LIPUSS CONTRACTOR AND
	ciricity (HV/LV);	EXPOSUTE THE PROPERTY OF THE P
Fal	ing Loads / Objects	TO SHOCK OF CARRIES L. T.
Fla	mable Vision & C	Serious head and O body injury
	mnable Vapors / Gases / liquids	- Explosion of file one
: 1 jei	nmable Materials	Potential for fire
HOL	/Humid Work Environment	Heat strate water
Mov	ing Parts	Heat stress disorientation to a consciousness
Nois	E PARTE OF LAND	Entrapment major or minor injur
Ope	nings in Floor / Walkways	Long term hearing loss finative
Flan	imable Materials / Gases:	ens norm neight, major injury
Hea	sparks and naked flames	to mazar dous area fire local
High	intensity light (welding)	Dulls to exposed skin William was a series
How	whetisity light (Welding)	Arc flash, short term dispands
1 :5:	sekeeping poor	Slip trip fall fire hazards, blocking fire escapes
LITTIN	g Operations	
	Electrical Work	THOUSE SPRING LAND
. Lone	Working	
Long	Working Hours	The state of the sponse of the state of the
	ıal Handiing	respect to fatigue
	Task / Operation	Wiuscular / skeletal injuries
		Major / minor injury resulting from mistakes
ماروقة بيور كررو	militari sagiros peri permitarimantan di san dagiran da se sensagiran da se	nommistakes

rocurement Dept.



Oxygen deficiency Death of appropriates
Poor Lighting (15 and the
Clipping / Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Minor Injury, trips and falls
Cubetonia to Land Contamination
Chemical burns, toxic; poisoning irritants and irritants
Majorinishing at
Ampirization and are
Use of Mara Tols
Minor laceration and impact injuries  Burns to skin eves and
Use of Hazardous Substances  Burns to skin, eyes, and respiratory system, Environment  Hazards
Use of Power Tools: Impact injury, hand harm vibration - loss of sensation over
: Vibration - Major / minor injuries - entrapment outline -
**Mode of United
Major / minor injury
The state of the s

Environmental Aspect losario tion & Impact Assessment
Environmental Aspects:

Mile conducting environmental assessment, following species are usually considered:

## REDUCE CARBON

#### What we can do:

- Recycle: what you can
- Reduce: avoid unnecessary consumption of resources
- Reuse: Buy items that are reusable and reuse them
- Unplug electrical devices that are not in use
- Avoid unnecessary driving
- · Use LED bulbs.
- Plant a tree

	Emissions to air	the same of the sa
	Solid and the so	Water Discharges
_		
	Object in the property of the	
	Heat Dust commence to the second seco	
	Dust	
	The state of the s	VIDE
	Effect on visual / aesthetics	Use of Oz p lepleting
1	Use of radioactive /	SUDSTANCE
	, inclear material	Spillage of chemicals

For identification of environmental aspects and impact each process/activity/equipment is assessed for its inputs and outputs. The inputs can be raw materials, utilities, energy etc. The output can be atmospheric emissions, liquid effluents, noise, hazardous/non-hazardous wastes, vibration etc.

The inputs, outputs, environmental aspects, their associated impact and controls are recorded on Environmental Aspect & Impact Assessment Form (SSGC-IMS/CRM-F-02).

WB





## b. Control of Aspects having Significant Environmental Impact:

The significant environmental risks require control measures to eliminate or reduce the impact to a tolerable level either by establishing objective or through application of controls by considering the 4R methodology i.e.

Some of the suggested operational controls are listed below:

- a. Design of environmental friendly processes/operations.
- b. Isolation or enclosure of hazardous material storage, process or noisy equipment
- c. Mechanical exhaust systems/booths for controlling toxic materials. d. Replacement of potentially unsafe equipment or machinery with new equipment/machines that meet environmental standards.
- e. Electrical or mechanical safety interlock, guards, indicators.
- Safety devices Relieve valves, NRVs, indicators etc.), measuring or monitoring descriptions. gauges, computerized feedback monitoring and control systems.
- g. Environmental mendi osposal or treatment systems etc.
- h. Fire prevention/suppression
- i. Containment walls.
- I. Scrubbers.
- k Dust Collectors
- L Other controls: Training, SOP,

The record of operational controls on sign nt environmental risks is maintained on Environmental Aspect & Impact Assessment Form (SSGC-IMS/Ca)

After Identification of aspects and assessment impacts, it is sent to HSE&OA Department for reviewing adequacy and correctness. Where require improvement in risk assessment to concerned Zoie I SE&OA suggests hecessary changes or

#### c. Aspect & Impact Assessment Review &

Zonal HSE Team Leader ensures that environmental activities/processes/equipment are kept current by conducting

- a. Once every six months to update the information, and identify SSGC-MS/CRM-F-02 for recording new trazards and aspects
- b. Carry out assessment, for new or changes in activities proce
- c. When there is a change in laws & regulations

## d. IEE (Initial Environment Examination) / EIA (Environment In

inpat) In addition to all of above assessments, SSGC will carry out IEE / EIA as required by req for new projects. It is the responsibility of corporate HSE&QA head/DMD/MD to ensure

When combusted;

One liter of Diesel produces 2.68 kg of CO2

One liter of Petrol produces 2.31 kg of CO2.

One MMBTU of Natural Gas produces 53.07 kg of CO2

Integrated Management S





#### Section 3. Permit to Work

#### I. Permit to Work (PTW) .

A Permit to Work (SSGC-IMS/CRM-F-03) is needed for any routine/non routine activity (Conducted within permanent locations of SSGC) where the work could expose persons to specific hazards. PTW should be acquired and maintained in the zones where job/activity is carried out. Normally following activities require

- a. Task based Hot Work operation such as welding, brazing, cutting, grinding.
- b. Confined pace working. (tank cleaning etc.)
  c. Mainfestary Work on High Voltage electrical equipment.
- d. Any janitonia se vice involving Safety Risks such as work at height.

  e. Any Maintenance activity by any department/contractor which compromises critical safety system.

  f. Work involving interaction with asbestos.

- g. Work in areas where the is a risk of exposure to hazardous chemicals or microorganisms.

  h. Any job/task/activity that equires additional precautions.

  i. Any specific activity per true of during development, modification and up gradation of SSGC's Vital Installations including SMS/Asta Assembly/TBS/PRS etc.

#### II. Exclusion

Following activities are not under the core of PTW management, however the risk assessment, process SORs are implemented to core of the associated risks for the following: Following activities are not under the

- a. Providing Gas connections to new custom
- b. Emergency Response to Consumer calls (199
- c. Planned enhancement of Distribution network
- d.-Work on live pipelines like hot tapping, installing the live Tee etc. e. Any major/minor rehabilitation/reinforcement work

# ALAROS, lf it's UNSAFE!

- ✓ Report it
- √ Remove it
- / Replace it



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# III. Responsibilities

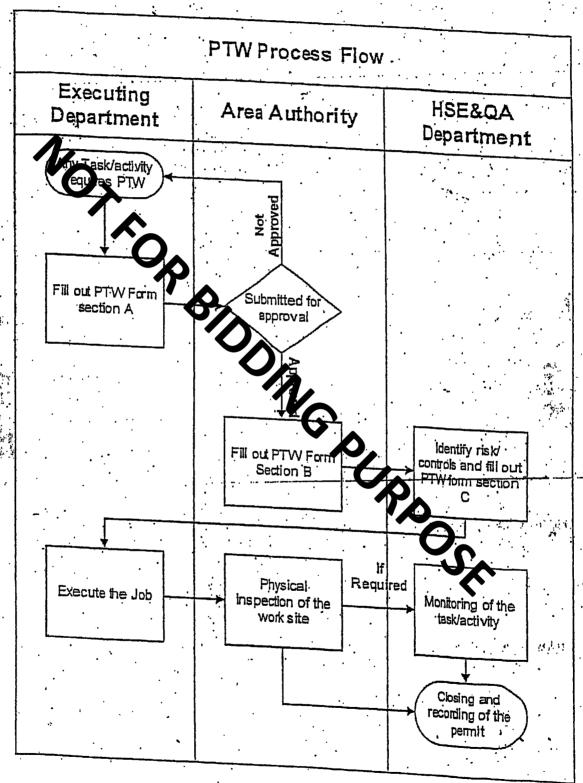
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	S No.	Functions	Details	Responsibility
<b>.</b>			the second second	
		Executing Arthority	The department intends to carry out the task / activity that requires PTW. Situation may arise where Executing Authority is same as Area Authority (e.g. HQs).	Fill out the PTW form. Ensures that task/activity is carried out according to the SOP and controls are implemented to ensure safe operations.  Immediately report any incident happened during execution of job to in-charge HSE&OA.
	2	Area Authority	Area/Facility where the task/at the rv is carried out.	Authorize PTW and verify the compliance during the execution of task/activity.  Authorized to stop work in case of noncompliance to PTVV requirements.
	3	Contractor	The individual/organization carrying out the Task/Ac vity on behalf of the executing department.	Liaise with executing department to ensure the controls are implemented as the requirement-identified in
A	4	HŚEŻQA	HSE&QA will identify the risk/hazards associated with the activity/task and propose controls. In Zones where HSE&QA representatives are not present, Zonal HSE team leader will officiate for HSE&QA responsibilities.	If requirer Monitor the task/activity unit g execution and identify as to personal proposed control Proposed to proposed control Proposed to close the PTW are maintains records.  Authorized to stop work in case of noncompliance to PTW requirements.

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Intagrated Management System

IV. PTW Process Flow



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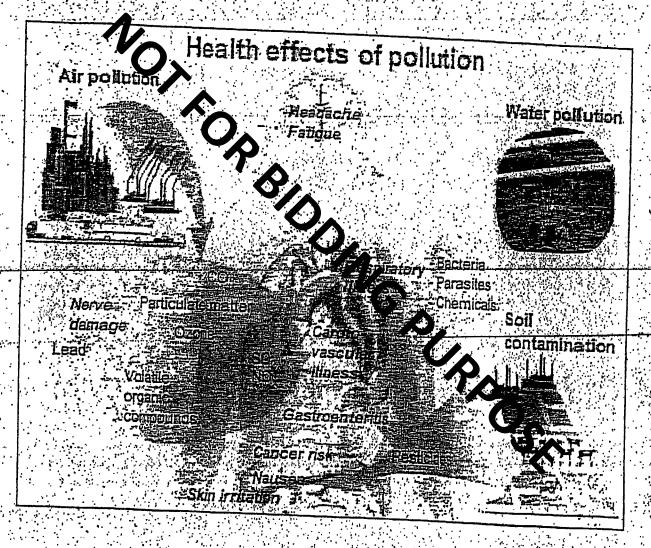


#### V. Permit Display

Copy of the permit to work should be clearly displayed at the work site or in a location close to where the work activity is being undertaken. Executing department/contractors are also required to ensure that a copy of the permit to work is kept and made available upon request by Area Authority/ HSE&QA

#### VI. PTW Closure

Once the task/activity is completed the PTW form is returned back to HSE&GAZonal HSE team leader for closing and updating the records. A new PTW is required if the task/activity is not completed within stipulated







# Section 4 Job Safety Analysis

### I. Job Safety Analysis (JSA)

Job safety analysis is needed for any routine/non-routine activity (Conducted outside permanent locations of SSGC Le. Field Locations) where the work could expose persons to specific hazards. Normally following a. Work on live pipelines like hot tapping.

- b. Any major/minor rehabilitation/reinforcement/maintenance work on existing distribution/transmission
- ce connection for new schemes. (Blanket JSA may be carried out for each scheme).
- tivity requiring JSA as necessitated by HSE&QA.

#### II. Responsibilities

S No.	Functions	Details	Page 11 and 12
2	Activity in- charge/ Supervisor  Head Of Executing Department	Individual is assigned to any out the task/activity requiring JSA.  Head of the department who is authorizing the task/activity requiring JSA.	Responsibilities  List down the activities step wise and identify hazards and their controls  Ensure that task/activity is carrie with proposed controls  Ensure the team/equipment involved are competent and safe Report any untoward situation  Authorize JSA  Sy Adequate resources are provided to carry out the task and in safe manner  Select competent team and team leader for the all inity/lask  Submit a copy of Aprior to job execution to HSES QA/Zonal HSI
3	Contractor	The Individual / organization carrying out the Task/Activity on behalf of the executing department.	Liaise with executing department to ensure the controls are implemented as per requirement identified in JSA



#### Section 5 Management of Change

I. Management of Change (MOC)

The purpose of this document is to provide all SSGC employees with instructions on Management of Change (MOC) process. Any changes that may affect quality, operations, safety, or the environment will be adequately assessed and must be approved by management or a designated representative of manage.

Risk Assessment or any new project, major modification in existing design facility/instellation will be carried

#### II. Scope

This procedure is intended to dress those changes which may have a direct impact on SSGC's Integrated Management System, or the subsequent delivery of services.

To make sure that changes are successed and documented in a consistent manner so that:

a. Unnecessary or counterproductive manges are prevented.

the office of a sign partition because on the resident of the contract of the

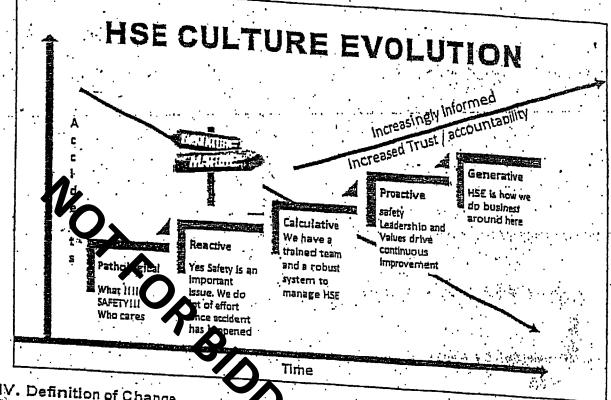
- b. Changes do not adversely affect safety to environment, quality, operations, or the level of service to the
- c. No changes are made by individuals withou o viedge and/or agreement of all relevant parties.
- d. A record of the assessment rationals and cha essment process is produced.
- e. To make sure proper change out of employees unp perations is addressed.

#### III. Responsibility

- a. MOC Owner: MOC owner is responsible to fill out the designated section of the MOC form (SSGC-IMS/CRM-F-05) which briefly describe the details/so
- b. Area Authority: Area authority is responsible to identify the possible impacts of the change that is taking place. Generally geographical head/zonal HSE team leader is cons
- place. Generally geographical responsible to authorize by claim after assessing the risk and their controls.







IV. Definition of Change

For the purpose of this procedure a "change" is an averation to Processes

- a: Documented information maintained by this IMS.
- ba Equipment, hardware, software, inirastructure.
- c. Personnel assignments and training.
- d. Vendor selection and management.

Other types of changes not listed above can be related to any element. resources, persons, activities, controls, measurements, outputs, etc.

Note: Not all alterations to a system require the Management of Change Prod employees, editorial changes to HSE & QA procedures and forms, etc.)

#### V. Levels of Change

#### Level 1

a. Change which has limited or no effect on deliverables. operations, safety, work environment, etc.

b. Changes to equipment, procedures and employee assignments that have a moderate impact on

#### Level 3

c. Changes to equipment, procedures and employee assignments that have a major impact on deliverables,



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#### VI. Change Procedure

Step 1 - Initiation of Change

Any employee or contractor that becomes aware of a need for change can initiate the MOC process. The originator will notify their immediate Supervisor/Manager, detailing the proposed change on the MOC form (SSGC-IMS/CRM-F-05). With concurrence by their Supervisor / Manager, the MOC form shall then be

#### Step 2 - Review by in-charge HSE&QA

In-charge HSP QA will review the MQC request for potential operational impact, cost/benefit analysis, and associated vis with input from the appropriate process owners (Moderate Impact) and/or SSGC top impact may be pressently the Management Representative directly.

If the request is accepted, it charge HSE&QA will detail any actions deemed necessary to control the impact of the change and forward the equest to the appropriate process owner for implementation.

#### Step 3 - Implementation of Actions

The process owner will be responsible to implementing and coordinating the actions required for the proposed change. If it is determined that further assessment is required during the course of implementing the change, these assessments will be documented and subpritts for review prior to completing the change process. Only completion,

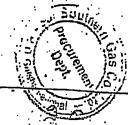
#### VII. Closing out the MOC

The In-charge HSE&QA will review the satisfactory implementation of the proposed change, and effectiveness of any corresponding control measures.

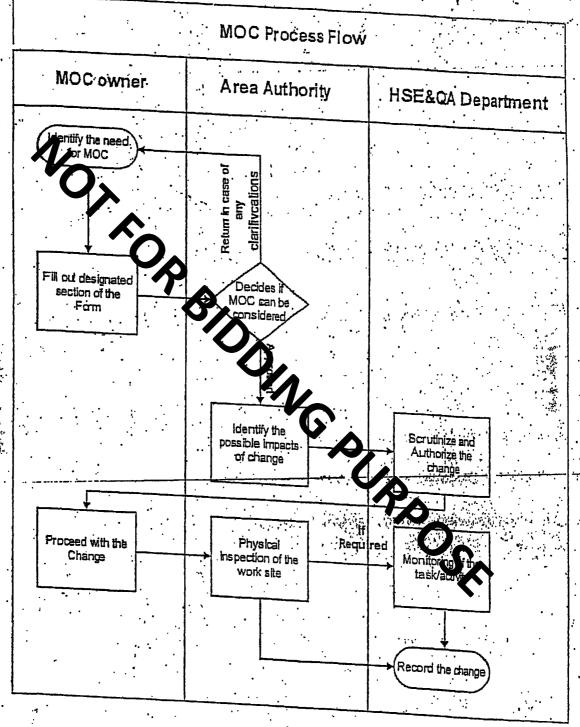
#### VIII. Record Keeping

The In-charge HSEAQA will retain a log showing each MOC (Control Number of and file the Initial MOC process. These records shall be maintained for a minimum of 3 years.

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#### MOC Process Flow



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HandBook | February 2022

7. TYPICAL-SSGC OPERATIONAL HAZARDS AND THEIR POSSIBLE CONTROLS Some of the common Hazards related to SSGC operations are tabulated below and may be used while these hazards should be identified accordingly along with possible controls.

#### 7.1. PHYSICAL

Hazards	Control Measures
Adverse vert	Shelter, personal protective equipment (PPE; cold / wind / rain-
Poor / Bad hous keeping	Improved safety attitude, good management, safety inspection, good work layout.
Contact with hot / cold	Insulation, guarding, PPE (gloves, face shields, insulated othing).
Drowning	Lip granding, lifesaving equipment, presence of section
Excavation work	Physical carriers; fencing, shoring, safe system of work, signs, caution.
Fall from height	Edge protection afety lines / hamesses, safe means of
	actess, (e.g. scale) in g), safe system of work (e.g. permit to work).
Fall-of material from height	Alternative storage, physica of securing
Lighting	Good work area design and lighting a pment measuring of illumination (LUX level), appropriate if he
Awkward lifting while laying pipes in trenches	Define weight limits, use mechanical mean for ting and laying of pipes.
Noise	Reduction at source, Insulation, PPE
Silps / Trips / Falls on same level	Good maintenance of work areas, good housekeeping, good cleaning, good footwear.
Stacking	Good work area layout, height limits, weight limits, strong packing, mechanical assistance;
Vibration	Elimination or reduction at source, damping, insulation, PPE.
	PPE.

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Integrated Management System:



#### 7.2. MECHANICAL

Hazards	Control Measures:
Hand tools	Periodic inspection electrical
_Machines	Library and the control of the contr
Mechanical lifting	
opèrations	Periodic inspections, maintenance, supervision and training.
Manual anding	Regular assessment of handing the same of
Moving vehicles	eliminate stress / fatigue. training in good lifting techniques.  Good road layout within premises, proper signs, vehicle maintenance, speed limit, enforce SSGC driving policy, defensive
Over Pressure	Proper identification of pressure vessels, preventive maintenance, resure indicators, alarms. PRV's where required, periodic

#### 7.3. ELECTRICAL

Hazards	
Live working	Avoid (i.e. No the West
Hand tools	Avoid (i.e. No Live Working), Use competent trained staff.  Regular inspection, testing or seed cal integrity and replacement (where appropriate).
Heaters (elements)	Isolate from combustible material, gua di
Machines / Electrical cables	Electrical testing and maintenance, good electroal safety design, periodic inspection for design load vs actual load, use of circuit breakers, lockout/tag out anti-state.
Electrical cables / cords	BI GOI IUNIO
Power Lines (Overhead / Buried)	Use factory assembled cords, always use plugs, no naked wires.  Look out for signs, contact local utilities (KE, WAPDA) for locations, stay at least 10 feet away from overhead lines, use

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Procurement E

Integrated Management System

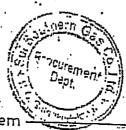
		· · · · · · · · · · · · · · · · · · ·
•	Hazards	Control Measures
	Combustible materials	Avoid, reduce storage of combustible motorial
	The state of the s	
	Flammable gases	Storage of gas cylinders /a d budget
	Flammable blents	Controlled storage, use and disposal (a storage color-coding.
		Tire proof storage, signs, no smoking, no raked flames, emergency plans.
	Heaters:	Segregation from sources of computation
	Oxidizing agents	Chemicals that are a source of order
	Oxygen (gas and liquid)	
-	Some industry	regate from sources of combustion, controlled storage and
	Smoking materials	Descripted smoking areas with proper ventilation, promote no
	Static electricity	Limit use cost in generators in hazardous
T		
t	Gas Leaks	Odpurization for the detection where possible proper joining methods. Field surve and ing. leak detection techniques.
5	OTHER	de lection techniques.
-		The state of the s

	and the state of t
Hazards	Contro
Chemical: Chemical substances, Comosives (acids, alkalis), Carcinogens, Irritants (e.g. Ammonia)	Avoid use, substitute less harmful substitutes, use maintain and test engineering controls, monitor to the actions substances; (PPE), emergency plans for uncontrolled releases.
Biological: Biological agents (micro-organisms: pathogens, mutagens, carcinogens), Rodents, Snake Bite	test engineering controls, monitor for hazardous substances, inform and train employees, use personal protective equipment (PPE), emergency plans for uncontrolled telepses. Periodic rodent control drive, identification and elimination of snakes and other harmful rentiles specially in
Food / Water safety	employee information and training, good personal hygiene, protective clothing. Testing if required from accredited lab product/Services.
Ergonomics	Educate / Train employees, avoid repetitive tasks, procure ergonomically design products (e.g. chair, Computer desk.
12	Course State of the State of th

HandBook | February 2022

#### 8. DOCUMENTED INFORMATION

Record No.	Record Name	Maintained by	Retention Period
- SSGC-IMS/CRM-F-01.	Hazard Identification & Risk Assessment Form	HSE&QA Department	3 Years
SSGC-IMS/CRM-F-02	Environmental Aspect & Impact Assessment Form	HSE&QA Department	3 Years
SSG: MS/CRM-F-03	Permit to Work Form	HSE&QA Department	3 Years
· SSGC-IMS CRM-F-04	Job Safety Analysis Form	HSE&QA Department	3 Years
SSGC-IMS/CRM-1-0	Management of Change Form	HSE&QA Department	3 Years
SSGC-IMS/CRM-F-06	next of the Organization	HSE&QA Department	3 Years
SSGC-IMS/CRM-F-07	SWOT Area sis	HSE&QA Department	3 Years
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SSGC HSE&QA Pepartment

## IMS Form

Hazard Identification & Risk Assessment Form SSGC-IMS/CRM-F-01

Revision 01

Issue Date: July, 2021

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Zone		Department						
	Hazard	What can go	TEN OF	<u> </u>	Location 🦑		Date	
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## IMS Form

SSGC-IMS/CRM-F-02

Environmental Aspect & Impact Assessment Form Revision 01

Issue Date: July, 2021

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Integrated Management System





## IMS Form

SSGC-IMS/CRM-F-03

## Permit To Work Form

Revision 01

Issue Date: July 2021

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# IMS FORM

\$SGC-IMS/CRM-F-04

Job Safety Analysis Form

Revision 01

Issue Date: July, 2021

Executing Department			Zone		District Control
Job/Activity:	Activity De	tails:	1 200		Date I
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PPE Required:					
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Integrated Management System

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SSCC HSE&QA Department

#### IMS FORM

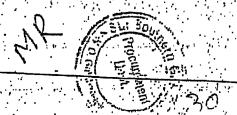
SSGC-IMS/CRM-F-D5

Management of Change

Revision 01

distre Date: July: 2021

  -	M	Section A : Description
· 1		Section A: Description of proposed change and potential hazards
- [.	. •	MC Pyther with the proposed change and potential hazards
	•	MO Pother Location of Work:  Location of Work:
1	•	Work (%)
.	•	
$\cdot$	₽,	Type of Change
	Owner	☐ Permanent ☐ Physical structure/building ☐ New or modification in a pure eas/procedure ☐ New or modification in acquire and in acquire and in acquire in the construction in acquire and in acquirement.
. [	Ŏ	Demanent procedure D New or modification in equipment/machine D Material  Temporary District D New or modification in equipment/machine D Material
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٠]،	<u>,</u>	Detail of MOC/Scope Summarize the pasis for the proposed change and any potential health, safety and environment line at resulting from the proposed change.)
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٠,	٠	The proposed change is now submitted to Ar Authority for evaluation
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:1.	٠.[	Section B : Evaluation of the impact(s) related to charge
7	L	Evaluation Criteria
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		reculifements?
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1 2	<u>.</u>	Manageable and Safe?  Does the change requires changes to RSCO USE.
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₽	L	Does the change requires any specialized training for SSGC staff
	Ľ	Note: in case of "YES" please provide details on a separate sheet  The proposed change is now submitted to in phase USE and a separate sheet
P		The proposed charge is now submitted to in charge HSE&QA for authorization.
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HSE&QA Department ontext of the Organization

IMS Form

SSGC-IMS/CRM-F-06

Revision 00

Issue Date: July, 2021

## LIST OF INTERESTED PARTIES

Expinal Interested Parties	Needs & Expectation
Board Of Directors	Profitability, good financial and legal compliance, avoidance of fine and penalty
Os	OR Protect shareholders interest.
	Ensure adherence / compliance to GOP / SECP guidelines.
	Allocate resources to maximize revenue.
	best practices of corporate governance.
	Ensur committee meetings are held as per plan.  Financial seneral of the organization.
*	Avoidance of any lines / penalties.
	Reputation enhancement
	Corporate Social Responsibility (CSR).
	Allocation of all resources to achieve quality goals.
	<ul> <li>Achievement of safe and healthy conditions in organization.</li> </ul>
	Commitment to quality, safety and health.
	<ul> <li>Be prepared to seek advices from industry experts as required.</li> </ul>
	No major accident at company premises.
Management	Take policy decisions to increase revenue per employee.

Integrated Management System

SSGC HSE&QA

Department

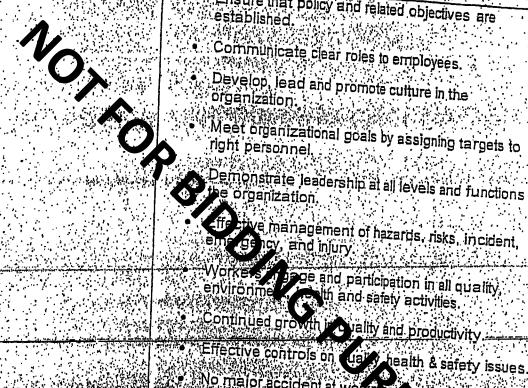
IMS Form

SSGC-IMS/CRM-F-06

Context or the Organization

Revision 00

Issue Date: July, 2021



- Ensure that policy and related objectives are established.

- Demonstrate Jeadership at all levels and functions of

- health & safety issues.
- No major accident at wor conditions for all employees
  - Develop positive quality and health
- Continuously improve quality, safety and health performance with review process.
- , Well performed employees.
  - Better staff retention and morale.

Staff & Workers

Continuation of job, timely wages with all applicable benefits to pay the cost of living, professional development and growth via regular trainings.

- Good and safe working conditions.
  - Job security.

HandBook | February-2022

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## IMS Form

SSGC-IMS/CRM-F-06

HSE&QA

Department

Context of the Organization

Revision 00

Issue Date: July, 2021

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- Training and development opportunities.
- Sustained reputation and image of company.
- Consultation.
- Communication and participation.
- No accident / injury / ill-health.
- Reward and recognitions.
- Opportunities for dialogue / improvement / changes.

Timely and fair provision of remuneration coupled to career progression.

Client/Customer

Timely provide high quality services, quick response on any complaint, to well local laws and QH&S requirements.

- Uninterrupted 4 supply
- Customer facilit
- Quick response of quarts complaints
- Value for money
- No health and safety issue in please
- Prompt actions on quality; health and safety issues.
- Minimize the risk of injuries when receiving a services.
- Socially and environmentally responsible.

Suppliers/Contractor

- Continuous orders, prompt payments as per agreed terms, good long terms working relationship.
- Fair chance of participating in bid opening.
- Communication of hazards present at workplace.
- Timely payment.

Integrated Management System

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Revision 00

Issue Date: July, 202

HSE&QA Department Context of the Organization

Trade Union & Worker

IMS Form

- Effective Implementation of national & local labor laws with any non-conformance, good working relationship with management

	Representative	laws with any non-confermational & local labor	
,	10 10 10 10 10 10 10 10 10 10 10 10 10 1	laws with any non-conformance, good working	
٠.,		relationship with management	
		Conducive and safe environment for work	
•:.		• Timely needs	٠.
		Timely provision of information necessary for workers	
•			
	The second se	No fear of dismissal or disciplinary action while	
		porting near miss / accident.	
,		A ACCIDENT	٠
			_
	External		:
	External Interested	And the state of t	÷
	Parties	Needs & Expediation	1
	Media & NGOs		ĺ
: [		• Media mana o ment	1
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Patient and posmo zitude	
:		English to the Company of the Compa	l
4		Effective communicator &	l
:	Visitors 1997 1997 1997		l
-		Safe entry and exit during stay a SSGC.	ŀ
			l
		Communication of pertinent informa in	l
1		Emergency response	ŀ.
		*1. Character that the and have there into the hard set of the first of the firs	
·  .		Briefing necessary safety rules.	
-	1375年的特殊的1990年	THE SHARE BERKER AND LEADER OF THE PER REPORT OF THE TOTAL TO THE PER PARTY OF THE PER PART	•
		Necessary PPE available.	
		• Site access controls.	• ,
. .			
F	Mergenov Co-		
10	mergency Services	Good Risk management.	•
j '	Fire/Medical etc)		
:  ·-	والوادالية والعادلية وتهاجيك المستورات	Emergency procedure in place and drilled.	
;	化对应分类 医阿尔克氏病	Population	•
-		Regulatory compliance.	



IMS Form

HSE&QA Department

Context of the Organization

Revision 00

Issue Date: July, 2021

Department	Issue Date: July, 2021
The state of the s	The state of the s
	Regular drills for flooding, spillage, site excavation and first aid etc.
	Availability of adequate resources.
(Power/water/uel,Telecom)	Prompt payment.
	Good Management.
Academic Institutes	Effective learning programs for employees.
	Synchronize the linkage of quality, health and safety with technical and non-technical learnings.
Inquire no O	Learning from SSGC.
Insurance Companies	No claims, risk management, prompt payment.
Banks	Finance, performance, cash flow.
Neighborhood/Community/ Society	Safe working conditions.
	Environment frier by operations.
	Contribute positivel to it bell environment and populations.
	No complaint relating to noise protein, waste and employment.
Share Holders	Minimize risk and losses.
	<ul> <li>Increase market capitalization.</li> </ul>
	Return on investment.
	Transparency.
and the first time of	Rights are protected.
	Good dividend.
Federal and local law enforcement agencies	<ul> <li>Pay all applicable taxes timely, follow local laws and regulations with regular updating</li> </ul>

IMS Form

SSGC-IMS/CRM-F-06

SSGC

Revision 00

HSE&QA
Department

Issue Date: July, 2021

		F 72, 13, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
	Third party auditors-	Turk reserved
	Finance	Smooth data collection
		Better financial performance
		• Effective communication
		• On time response on queries
	Certification bodies	No fraud or illegal acts detection
1		Effective Implementation of ISO standards with all
-		relevant clauses in the organization
.[	Creditor/Financial Institution	p id on time, good financial performance
ŀ	Government Regulators	
į	(Local/Regional/Provincial/	den die depolicable statutory and regulatory
ŕ	National/International)	require the for Quality and health & safety.
ł	Mary Control of the C	The same of the sa
ľ		Prompt reset is as in case of any non-conformance.
	A STATE OF THE STA	Proper Investigation uncontrollable:
		• Impersorate
.:	A CONTRACTOR OF THE STATE OF TH	Implementation of sacrolly in the field of
ŀ	TALE SHAPE OF THE	
١		Fulfill the requirements of all approach laws, rules,
ŀ		
		directives.
•	<b>经验证证据的证据</b>	
٠.	- 100 Sec. 1	<b>東京大阪の大阪の大阪の大阪の大阪の大阪、大阪大阪、大阪大阪、大阪大阪、大阪大阪、大</b>
. *	· 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000 · 1000	All the real transfer and the second

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SSGC IMS/CRM-F-07

Revision 00

HSEROA
Department

SSGC-IMS/CRM-F-07

Revision 00

Rissue Date: July, 2021

	A STATE OF THE STA
POSITIE	
STRENGTHS Having vast of positions	WEAKNESSES
	Complex distribution network leading to UFG.
Infrastructure available in the provinces.	Substantial resources required for up gradation.
Highly competent human restrict.  Certified to international standard.	Lack of succession planning.
Sole Meter manufacturing plant in Pakistan.	Takes extra time to implement all requirements because of big size of the organization.
Serving the nation since decades.	Go sylment new rules implementation.
Positive image of the company is already established in the Society.	Resource transfers.
OPPORTUNITIES  Monopolistic market.	THUAZA
Over 2.8 million customers.	Depleting natural gas.
Import of LNG.	Customers may turn to renewable energy sources.
Huge infrastructure of Transaction	High cost.
Distribution to connect new customers.	Gas theft and leakages resulting in huge loses.
Reduction in the lead time to facilitate complainant.	Change in Government policies.
Advancement and use of latest technology to control the system will create more effectiveness.	Criminals threats on security.
	the second second

Integrated Management System

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#### 1. PURPOSE

The purpose of this document is to define a mechanism of incident and near miss reporting investigation & propose corrective/preventive. actions against near miss, incidents and accidents

Anything Mat can go wrong, will go

<del>Wrong'</del>

#### 2. SCOPE

This procedure is applicable to all incidents (i.e. accidents & near miss) which take place within SSGC premises or outside SSGC premises i.e. its installations or work related sites which are under the scope of

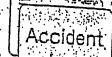


a. incident: Work-related event(s) in which an injury or ill health or property damage (regardless of severity) or farality occurred. or could have occurred



Accident An incident il en injury or illness or property damage actually of

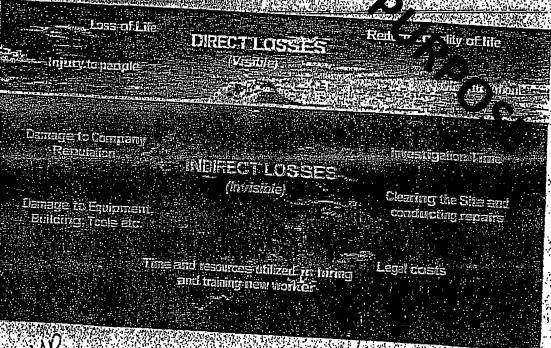
Near Miss: A Near Miss is at up aned event that did not result in an injury or prope the potential to do so.



Near



CPR: Cardiopulmonary resuscritation
Emergency: An emergency is a situation that the section immediate pick to health. life property, prienviron than the section in the sec



Integrated Management System

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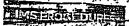
# 4. PROCEDURE

## 4.1. Incident Classification Table

			•	t e e		:
1	S. No	Incident Type	i Classifi - 450			
i	- 2 369	West of the state of the	1 Classification	Actions to be taken;	Responsibilities	Heritary in the state of the st
۱"	721	Major fire,	]	Inform respective	September 1	Record
;		• Major gas		departmental head/in-		
i		leakage "		.charge and immediately	A mumm	. 1
Ì		<ul> <li>Explosion</li> </ul>		call iccal rescue	Anyone who has	
	• •	Bomb blast		departments, such as Pire	witnessed or received initial information	- 1
-		• Mehicular	1.	brigade, Bomb Disposal	about the incident.	
		prident		Squad etc. Thus	at the tricidant	}
İ		• meant		whichever is necessary.	. '	i ,
	••	aset			Security department	:
١		human is			In case within SSGC	
		due to any		Follow the Emergency	premises, Site/Zone/	·SSGC-
Í		untoward		Response Procedure.	HSE team leader in	IMS/ER
إ، .	7.1	struction including			Case it is outside the	P-04
`	•	natural		Provide Help/Support to	SSGC premises.	
·į	•	disaster.		ine victims such as Eigh	Only trained persons	*
إ	. ;	damage or		Alp or CPR if needed.	In case of CPR/First Aid is needed.	
	ن رو رغمر نورو	theft of asset	<b>5</b> /	Report the incident using	. no is needed.	
•		property		incident notification form		
ļ	100	having an		eb portal to in-charge	7000   110 = m	SSGC-
ì	1/2	estimated		TOPICAL IMMediately for	Zonal HSE Team leader.	IMS/IAM
••	, i	amount of more than		when 4 jours) after the	isader.	F-01
	4	Rs. 30,000	<u>.</u>	occurre to a incident.	- 3	
1	1.	• Injury/illness	Major	HSE&OAWI con plete the		4.49
1		: serious	<b>E</b>		•	8530
٠,		enough to		web portal within a ve		SSGC-
		result in two		working days after receiving incident	HSE&QA	-F-02
	<u> جوء شرب</u>	off workdays,		notification form.		""
		, ,	·	Additional days may also		
•				ne required depending uppar		1.
	17911	The Contract of		the criticality of investigation		l.
	· · · · · · · · · · · · · · · · · · ·		,			
				HSE&QA will share the		-
				Tepoπ With: all concerned		-
-	ļ. :.	i	· with the second	"TOT necessary corrective /	HSE&DA	
Ì			1	preventive actions.		<b> -</b>
•				HSE&QA will maintain		
,	\$	1		incident data base using		
• •			·	I the bost ished CSW Bolling (		1
		· •		silere ine information with	HSE&QA	
	·		İ	all concerned to avoid		
			1	reoscurrence.	* .	. '
	' ' '	1			Zonal HSE Team	
3		1	1.	Implement Corrective /	Leader and anyone .	'
	j .			Preventive action.	Who is identified in	<b>1</b> [
•		1 1		Follow-up to verify the	Investigation report.	
	i			implementation of	1	
•	i	į.		recommended.		
	• •	1	1	corrective/preventive	HSE&QA "	! .
	<del></del>	<del></del>	•	ections		, ' }
	•	• •	ببسب والمرابع		-	! :

HandBook | Fel

HandBook | February 2022 ...

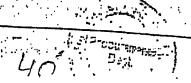


٠.	-						•
(4.4	S. No	Incident Type	Classification	Actions to be taken			•
6624	ni jaki jidan	With the same of t	April 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	In case of gas loss,	Responsibilities	Record	7
			Tajor	transmission/distribution department will quantify the amount of gas loss			
		1. 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and shares the same with	Transmission/	<u> </u>	+
.	34 % 50 .			COMCEMED DEDAMMENTS	Distribution	,	1
	¥1.57			along with investigation report.			٠,
. 1		Ainor Injuries	Water Street	100, 400			ŀ
	140.2C	is to alcount Aid		Inform respective	Anyone who has		1
		of the		departmental head / in- charge.	witnessed or received the initial information		1
	447	two off ays		Report the incident unless	about the incident.	.	
		the victim.		IIICIDENT notification	State of the state		1
	2	• Minor	o i	Via web portal to in-charge HSE&QA within twenty	Zonal HSE Team	SSGC- IMS/IAM	
ľ		Vehicular accidents	<b>A</b>	TOUR NOURS Of the	leader	-F-01	1
	Signal.	where there		occurrence of the incident.			
1	**************************************	is no	0/	HSE&QA will share the		,	∤∶
		significant injury or loss.		mannation with all :: !			ľ
			6/33	ened to avoid	HSE&QA		:
	13 (A) A) A		1. 3. 1. 1. 1.	reccu rence.			:
-			the same of department of the property of the	Repair the Isar Miss	man and demanded the service transmit all man be over	mingration and the fer-	<u> </u>
<b>K A B</b>		Any Near Miss		using online Miss Notification Firm Via web			
T,		Occurred /	3. 3. 3. 4. 4. 4.	Porter a dile	The second second	SSGÇ-	
1	3	Observed.		mentioned on the f	All Employees	MS/IAM	. :'
<u> </u>	ernskærn og	And Yourself St.	1.7.4.2.	attach evidence (if any)		-F-03	l
V ::		<b>的复数形式多点设计等等</b> 。	1.4 次分包 4. <u>1. 1. 1</u> .	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		·	

# 4.2. Incident Reporting:

- a. Incident that resulted in personnel injury, spill, fire, asset damage etc. Vill be considered as accidents and will be reported through online Incident Management.
- b. Incident that have not done any damage or lose will be considered as Near Miss and
- c. All HSE Zonal Team Leaders are responsible to immediately report any incident took
  d. All Employees are responsible to immediately report any incident took
- d. All Employees are responsible to immediately report any Near Miss occurred / observed

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CORRECTIVE

THE WAR THE STATE OF THE STATE

# ---- 4.3. Investigation and Corrective Action

Incidents are investigated by the team constituted by in-charge HSE&QA. If required, a cross functional team may be formed. Depending upon the situation, Incharge HSE&QA will decide whether to investigate or not any major/minor incident/accident, considering following factors:

- a. Severity of the incident/accident.
- b. Time lapse between reporting of the incident and the actual occurrence of the incident.
- c. Lack of supporting information.
- > The investigation is carried out to determine the root cause of the problem. The n rocess covers:
  in o root cause using any suitable method like tripod analysis etc.
- b. Investigation will be conducted as soon as possible after the incident, following the activities required controlling the hazard.
- When indicated by the severity of the incident, steps to secure the incident site must be initiated immediately to see that investigating party can reconstruct the events leading to the incident.
- d. Individual interviews will be conducted with each person present at the time of the incident. The following rules are followed or interviews with all individuals:
  - 1. The witnesses should be interviewed to populy, separately and privately.

    2: The interviewer should avoid questions are sive a yes or no answer.

  - 21. The interviewer should avoid questions are sive a yes or no answer.
    37. After the interview, the interviewer should to current any concerns identified.
- e. The investigation will be focused at determining the pot cause and therefore:
  - 1. The investigator or investigating team must focus in petting accurate and complete
  - 2. Facts must be separated from opinions, and direct must be reparated from opinions, and direct must be separated from opinions. evidence.
  - 3. Each concern identified in the investigation must be fully and
- Upon completion of the investigation, the team will fill and submit me chine Incident Investigation Form (SSGC-IMS/IAM-F-02). It includes Background Information, Root Cause Analysis, Conclusion and Recommended Corrective / Preventive Actions.
- g. In all cases, the Incident investigation must be completed within 07 working days from the incident notification date. Depending upon the nature of investigation, in-charge HSE&QA may extend the report submission timeline:
- h. Determination and implementation of viable corrective/preventive actions to eliminate the causes of incident.
- i. In-charge HSE&QA / Zonal HSE Team Leader ensures that the corrective/preventive actions assigned to concerned department/personnel, to be completed within agreed
- It is responsibility of the Zonal HSE Team Leader to:



- 1. Provide leadership role in implementation of corrective/preventive actions within the
- 2. Ensure that corrective / preventing actions are effective in eliminating / reducing the
- 3. Maintain record of Incident Notification Form and Incident Investigation Form of their respective zones.

## 4.4. Updating of Assessment

After the incident, depending upon the nature of severity and risk, the assessments (risk assessment) environmental aspect impact assessment) of specific activity / department will be upon including controls, risk level, likelihood etc.

# 4.5. Data Analysis and Review of Actions

The data of incident vill be evaluated and investigation outcomes will be shared with the management during management review meetings to seek advice and to discuss the effectiveness of measures. Cons implemented.

# 5. DOCUMENTED INFOR

•	Self Self Control of the Control of		
	Record No. Record Name	Maintained by	Retention
1	The state of the s	the sales of a standard for tarking in the specimental and a security and in section in the second section in the second	Period
	SSGC-IMS/IAM-F-01 Incident Notification Form	In-charge HSE&QA/ Zonal HSE Team Leader	3 Years
2			
	SSGC-IMS/IAM-F-D2 Incident Investigation Form	ri-chane HSE&QA/ Zocian PE Team Leader	5 Years
7	SSGC-IMS/IAM-F-03 Near Miss Notification Form		
	· "我们的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	in-chang 150 80A/ Zonai HSB ) air leader	3 Years
, . , .		A A	

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A	IVIS FORM	SSGC-IMS/IAM-F-01
SSGO HSE&OA Departmen	in the manufacture attor is cum	Revision 01
		Issue Date: Aug, 2021
	Scaling:	No. d by HSE20A)
P. 14.	Location Details:	
	Responsible And Zonal HSE Team Lea	der
	Particulars of Affected Person(s): Details of Affected Person (s):	Affected Asset (If any)
	Name(s)	
	Employee ID(s)	
34 1 24 3	Designation	
	Permanent  Convectual  Type of Convector	
	Vising Other	<b>5</b>
	Age	
and his representation of	(Note: Fortumer details additional page may be used). Incident Type:	0_
	Fire Explosion Vehicular Acoident Asset Damage Wor Thefi Sabotage Natural Disaster Gas Leakage Oth	
	Incident Consequences:	
	Fatality SSGC Hospitalization Asset Damage First Aid Incident Classification:	Other
• •	Major Minor Near Miss	
.e. 150	Incident Detail:	

fry.



SSGC-IMS/IAM-F-02

incident investigation Fum

Issue Date: Aug. 2021

سوم:	Pare. Aug
7	Incident Notification Form Ref. No.
	Investigated by
•	BALLER DID INFORMATION:
	ROOT CAUSE ANALYS
1	
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Γ	CONCLUSION:
ŀ.	
-	CONCLUSION
Ļ	- 22 * 22 * 2 * 2 * 2 * 3 * 3 * 3 * 3 * 3
+	RECOMMENDATION OF CORRECTIVE AND PREVENIVE ACTIONS
1	Recommended Actions
,	Action to way (date)
Ŀ	(1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
L	
Ŀ	
١.	
1.	s risk assessment required for the corrective actions? If yes, please mention the senal numbers for the
Ľ	heave wention the senal numbers for the
٠.	

SSGC HSE&QA Department

# IMS FORM

SSGC-IMS/IAM-F.03

and the second of the second control of the second of the

Near Miss Notification

Revision 00

Issue Date: Aug. 2019

Personnel Detail (Who Wibbessed the Near-Miss): ☐ Unsafe Act Unisafe Condition Executive / Engloyee Designations Department: Near Miss Detail: Times **新**美多拉。1985年 Leakage Equipment Slip / Trip ···· Chemical Fatton Hazard ☐ Einlegich Near Miss Related To: ☐ Fire Transport الدي ال Other 🌯 🕏 Brief description of what YOU SEW! (DEE 108 WORDS! Choose File No file chosen Resentingry Form

N

#### PURPOSE

The purpose of this procedure is to define a frame work for identification of emergency situations which company operations and for developing emietgency preparegness and response plants to mitigate and man ansurations of events. The Procedure defines

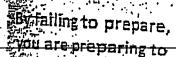
requirements for business continuity planning post emergency situations tobring the business on-line.

Purpose of the procedure is to

a. ... Formulate plan, responsibilities and actions to be taken to handle any emergency situation:

Identify potential emergency situations and response plans to minimize or avoid actual & potential hazards of any emergency situation.

Define medianism and frequency to test plan so as to ensure brebared Me nd effectiveness of emergency response system.





#### SCOPE

This procedure is applicable to all locations of SSGC, its employees and any visitor physically present at the location of emergency site Des variations in nature of operations, various departments/sections have developed their own ER Plans ate ng for their strategic, operational and physical requirements. The same includes HSE emergencies arising m mpany's day to day operations in terms natural calamities, fire, major incidents with loss in our operations, in or environmental damage, external terror or bomb threats, public unrest,

#### DEFINITIONS

- Energency Situation: An abnormal situation nat, alls for immediate and urgent actions for safeguarding life of persons, protecting buildings, machines, vial as fations and other assets.

  Rescue: It refers to responsive operations that usual avoive the saving of life or prevention of injury
- Emergency Response Organization (ERO): It is a g of people, in each section (such as HO Headquarters etc.), who prepare for and respond to any emerge 6 Incident, such as a hatural disaster or
- Emergency Response Centre (ERC): It is a room suitably equipped
- situations. All emergencies are to be reported here.
  First Ald: It is the provision of initial care for an illness or injury. It is usually of formed by non-expert, but trained personnel to a sick or injured person until definitive medical treatments
- Assembly Areas: If an evacuation to the outside is appropriate, the non nate of accessed. personnel shall be far enough away from the building, structure or workplace to assembly areas for practicable, everyone is protected from falling glass and other objects. ensure that, where
- Emergency Evacuation: It is the immediate and rapid movement of people away from the threat or from

#### RESPONSIBILITIES

Responsibilities for the particular department/personnel are identified in the response plans prepared by various departments and sections. General responsibilities for Emergency response organization are as under: Rush to the area of incident without any delay.

- Immediately assess the situation and initiate the remedial actions.
- Call the fire brigade & other emergency services like ambulances if required.
- Asklinform all personnel present within premises, using megaphone or any other means, for complete evacuation if situation goes out of control.
- Inform all to go back to their work places using megaphone or any other suitable means when the situation comes under control and the area is free from any hazard.



landBook | February 2022

## PROCEDURE.

The HSE&QA in-charge and department heads shall ensure that all emergency situations are identified during risk assessments performed and emergency response plans are implemented within the departments. They shall also ensure that all employees are made aware of their emergency situations and how to respond during a real emergency. They shall ensure that employees including emergency team members in their respective departments the rained to respond to emergencies and mitigate risks atising out of real emergencies. Some of the potential emergency situations that might occur in SSGC along with the response plans are listed

hat richt of Association of the

below: Sequence of actions for any response specified on each section's ER plan may change depending

# **Emergency Considerations**

The following areas of needs to be given consideration while identifying potential emergency situation but the same need to be limited to these areas:

Fire & Same needs to be given consideration while identifying potential emergency situation but the

- Toxic/flammable chemicals or leakage of gar Heavy rain flor
- Earth quake
- Bomb threat
- Building & office lock low shelter in place
- . Active shooter/hostages

## 6.1, Fire & Explosion

In case of fire & explosion each person apt as per but not limited to the following in ent within the premises must

- Give voice alam-FIRE in case of fire for all ime are employees in the area. Бż
- Push the nearest located call point button in
- c. ...immediately inform Emergency Response Organ f fire (if present). or in person. on through phone
- Try to control the fire by using fire extinguishers. U only if you have been trained.
- Remove all explosive, inflammable and poisonous materials the maximum possibility.
- Shut off main valves of gas and circuit breakers.
- Stay away from the fire in case it is not controllable.
- Report to the designated Assembly Point away from the scene of fire / explision if asked by Emergency

# 6.2. Heavy spillage of toxic/flammable chemicals or leakage of gas

In case of heavy spillage of toxic/flammable chemicals or heavy leakage of Gas each personnel present within

- Immediately inform Emergency Response Organization through phone or in person.
- Eliminate all ignition sources (sparks/flames/heat) from the immediate areas.
- Turn off gas supply from nearest control valve.
- In case of gas leakage in confined space, proper measures (opening windows, doors etc.) should be . Stop leaks if this can be done without having any risk.
- Do not touch or walk through spilled material.
- Prevent entry into waterways, sewers or confined space.
- If available wear the Personal Protective Equipment recommended.
- Arrange immediate cleaning of spilled chemical by taking suitable precautions



## 6.3. Heavy Rain / Flood

In case of emergency situation of heavy rain/flood, personnel must remain present within SSGC premises the situation gets worst outside. In case of water entering in department/office-each person must act as per but not limited to the following instructions:

Protect building, machines, equipment, tools, parts & material.

Shut off Electricity and Gas if necessary.

Following precautions should be taken by the departments/sections, located under rain/flood threat areas:

The first the state of the stat Ensure no material is placed outside in open area which may be affected by rain.

Ensure proper drainage system at vital installations so that every valve, equipment, electrical board, etc. in case of any emergency.

of tarpaulin and rain suit is available to meet the rainy condition. Keep the dr pen all the time.

All pumps used to draining out the rainy water are in running condition.

ne bags is available to stop entering the water inside, which may be placed in

	(L/SSES OF FIR	če se
Class (Material)	Duples V	Type of the Extinguisher to be
A Solias  Flatimable Liquids:	Paper, Wood old lip etc.	• Waters
C Flammable Gases	Propane, butane, meth he etc.	Dry Powder  Dry powder
D Metals	Aluminum, magnesium, titani	Sodium chloride based day
E . Electrical Apparatus	Short-circuiting, over loaded electrical cables, etc.	wder fire extinguisher
F Cooking Oil & Fat	Animal fat, etc.	Dry Cher based: Potassium bicarbo ate
A E	KAR CHANGE CO.	Wet: Fine ever ical mist

#### 6.4. Earthquake

In case of earthquake shocks each personnel present within the premises must act as per but not limited to the following instructions:

Immediately Inform Emergency Response Organization through phone or in person.

Immediately Evacuate to Assembly Areas (in open space where you can keep distance at least one half of the height of the building) after the shocks dampen.

Shut off all switches and valves of main supplies of gas and electricity. (If possible) Maintain your senses, do not let them disperse.

Protect yourself by sitting on side of tables, furniture & under strong structures. Be aware of falling walls debris, heavy objects and electrical wires.

Stay away from loosely hanging objects that may fall after initial shock and tremors. Wait for further instructions from Emergency Response Organization.

ERO should keep in rouch with the metrological department / media for aftershocks and future forecasts.

- The Romb Disposal Department shall be allowed to operate in the company premises as deemed
- On getting clearance from Bomb Disposal Department normal routine shall be adopted as advised Emergency Response Organization. 6.5. Bomb Threat

In case of bomb threat each personnel present within the premises must act as per but not limited to the following

- Immediately Inform Emergency Response Organization through phone or in person. Maintain your senses, do not let them disperse.
- Report to the designated Assembly Point if asked by Emergency Response Organization through emergency d.
- Bornta Disposal Department shall be called by Emergency Response Organization.
- prib Disposal Department shall be allowed to operate in the company premises as deemed appropriate. earance from Bomb Disposal Department normal routine shall be adopted as advised by Emergency Response Organization.

# 6.6. Building or Office Lockdown/shelter-in-place

If a situation calls for building office lockdown, the personnel present within premises should act as paths polimited to following instructions:

- Try to stay in pairs.
- c. Do not leave the room and/or until asked otherwise. undera lockdown situation
- Keep quiet and away from doors and wi
- If a gunshot is heard, lay down on the floor a fumiture as much as possible, hield under/behind

## Take care:

Don't try to be a nero in " emergency situations: do not place your own life or health or that of others in danger (

Bergprepared for unexpected! ·

# 6.7, Active Shooter/Hostage Situation

6.7. Active Shooter/Hostage Situation
In case of shooter/hostage situation each personnel preservithing the premises must act as per but not limited to If it is safe to do so, exit the building; if not, lock or barricade yourself inside a room.

Turn off lights, cover and lock the windows, and lay on the floor.

- if the shooter(s) leave the area, go to a safer place, if possible. Have ne hands open and visible, and follow any instructions given by law enforcement d.
- Call the Police/Rangers when it is safe to do so. Remain calm, use a quiety ice, and provide as much information as possible (your name and location, details about the shooter(s) ap earance, weapons, etc.).

  If you can't speak, leave the line open so the responding authority can listen and provide as much proport the location.
- Cooperate and negotiate with the shooter, in order to buy as much time as possible until the rescue team e.

# EMERGENCY NUMBERS

in consideration of the emergency numbers to be included in the emergency plan, the following should be taken Fire brigade/civil defense or equivalent

- . Ambuiance service.
- Hospitals/Cilnics.
- Mutual aid agreements/neighbors.
- Environmental protection agencies.
  - Key company personnel.

#### EVACUATION

All Emergency evacuation routes/doors should be accessible at all times. No hindrances should be placed in the route. All employees should be familiarized with the evacuation routes of their premises. All employees should immediately evacuate their premises and assemble at the assembly areas (identified by each section). During evacuation following instructions should be followed.

- Take only keys, wallets and essential belongings with you.
- Leave the building/premises immediately, do not try to investigate the source of the energency. Walk, don't run, to the nearest exit.
- Use stairs; not elevators.
- Assist people with special needs.
- your way out, encourage those you encounter to exit as well

## E EVACUATED

in case of emergency, evacuation should be carried in the following order:

#### 9.1. Personnel

Those personnel who do no e sound health such as patients of Heart. Asthma and physically/mentally disabled people are to be evice to on priority basis.

#### 9.2. Raw Material

Raw material which is explosive, in ammable and poisonous must be removed. Smilarly, important lightweight items that are easy to can thus also be removed.

#### 9.3. Documents

Important records and files must also be record

#### 9.4. Equipment

Cash Lockers, Computer Sets. pensive Tools and Fixtures must also be removed

## 10. TESTING AND EXERCISES

Testing and exercise of the emergency response plants uid be conducted at each location of SSGC to evaluate the effectiveness of the preparedness plan. The record of observations of the exercise should be recorded on Emergency Drill Form (SSGC-IMS/ERP-F-01). Each section should nominate the person who is responsible to adically conduct the exercise. frequency and type of drill at each location should be as below:

Location	Type of Emergency Drill	9	Frequency
a. Head Office; b. Regional Offices c. Billing Offices d. P&C Offices e. Store (all locations)	Evacuation and Mock Emergency Drill ( employees)	•	Six Monthly
f. KT (Transmission) g. Distribution (Zonal and Sub-zonal offices)	Fire Fighting Drill by Emergency Response	nse	Six Monthly

ł		CENTER CONTROL		,
	Meter Manufacturing Plant	Evacuation and Emergency Mock Drill (all employees)	Six Monthly	
		Fire Fighting Drill by Emergency Response ,	Quarterly	
	Headquarter Stations	Evacuation and Emergency Mock Drill (all	Six Monthly	**
		Fire Fighting Drill by Emergency Response Team	Monthly	
•	11. AVAILABILITY AND A		•	ĺ

# 11. AVALLABILITY AND MAINTENANCE OF ER EQUIPMENT:

Zonal HSE gam leaders ensure that emergency detection and response equipment are identified, available raini fred in their respective zones. A joint inspection will be carried out periodically to verify the efficacy of ER Equipment. The record shall be maintained on inspection and Monitoring of ER Equipment Form (SSGC-IMSTRP-F-02). Each zonal HSE team leader shall maintain record of their respective zone and share with in-charge HSROA as and when required. The need for the emergency response equipment is determined by considering the parards and associated risks with the particular ation etc. The response equipment usually include but are not limited to:

- Fire extinguisher.
- Fire hydrant/hose/bucket/water
- Smoke/gas detectors.
- Communication equipment. (Meg First aid box.
- ER vehicles/Ambulance.
- Breathing apparatus.
- Emergency lights.
- .Hammer/Axe/shovel/ropes etc

Frequency of inspection and monitoring of ER-Equipment will warrants, this frequency can be changed on the instructions of in change HSE&QA or Zonal HSE team leader.

		Location	•					}	DA or Zonal HSE	
a.	Head Quarter Statio	ns		<del></del>		<u></u>			Frequency	
D.	Meter Manufacturin	o Plant	:	•	•		1		7	
C	K.T (Transmission)	B • 1001 15.	•			•	1		Alamilak.	W.
. a.	Head Office			<u> </u>	· ·	·			отщуу.	•
b.	Regional Offices	• •		•	• • • •	• • •	.   .		<b>Y</b>	<u>· · · · · · · · · · · · · · · · · · · </u>
c.	Billing Offices	•			· ·		.	٠٠ .		
ď.	P&C Offices	•	•		· · · ·	•			•	
·e.	Store (all locations)	•	•	• •	٠.		'		Quarterly	
f	Distribution (Zonal a	· ····································	2		•	:	· .			

# 12. DOCUMENTED INFORMATION:

		•	
Record No	Record Name	Maintained by	Retention
SSGC-IMS/ERP-F-01	Emergency Drill Form		Period.
SSGC-IMS/ERP.F-02	Inspection and Monitoring of	HSE&QA Department	3 Years
	ER Equipment Form	HSE&QA Department	3 Years

Integrated Management

SSGC ..... HSE&QA Department

# IMS FORM

SSGC-IMS/ERP-F-0-

# Emergency Drill Form

Revision 01

ssue Date: Aug. 2021

			Pattern Secretary	N. A.	<u> </u>
Zone	1***		Location		
Type	Of Emplency Drill			Date	V10.00
☐ Fire	e and explation of Heavy spillage of toxic/f	lammahla	sha-la-la-		
□.Bor	nb Threat Off F: William State	13.376	Chemicais D Heavy	gas leakage 🗆 Ea	rthquake:
· · · · ·					
S.No		Observat		V	
7	Emergency Siren page 3	Time	Carlos and a	Comments	
2	Evacuation started at				
3	Last person reacried at			100 100 100	
-	DUM IL SO SE TRADES AND AND AND AND AND AND AND AND AND AND			A Section 1 Section 1	
. 4.	Firefighting/Bomb disposal squad/c	1 1 1 1 1 1 1 1			
5	THE DELLY TORUMENT SITE.				
	Emergency under control at time of Drill (minutes):				
Additi	ongl Observations (if any):			4 10 10 10 10 10 10 10	
	A A Charles No White Cond Property	<i>(1)</i>	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
.,	The state of the s				14. 14. 14. 14. 14. 14. 14. 14. 14. 14.
4					
V. W.					
S,No	As	5000			
<u>''</u> ').	Emergency responders were present at the				Yes No
2	Employee were properly instructed	ie site			
· 3 ·	Behavior of employee's was satisfactory.			A	
4	Evacuation foure was satisfactory				
5	SSGC firefighters were well trained				
· 6	Firefighting equipment were up to the man		***		
7.	Response of the medical staff was satisfac	K		Un	1
Overal	Assessment	ctory.			
	AND A CONTRACT OF THE PARTY OF		Satisfac	tory ti Uns 40	factory []
s.No	Corrective Actions/Improver	Tients Rec	Hirari	A 11 Street of the Owner, where the Party of	lactory L.
i			aneu.	Responsibility	Target Date
. 1					
. 1	The state of the second second	<del></del> :			
	Security Souland				
<del></del>	Security Services Representative		HSER	A Representative	
-	Name   Signature	1.	. Name		
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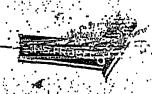
# IMS FORM

SSGC-IMS/ERP-F-02

HSE&QA Department

# inspection and Monitoring of St. Equipment Form

Zone	Basis I				Issue Date	. Aug, 2
Trans.	Region	Location				
☐ Fire Extingu	ment sher o Fire HydraniWater 3 First Aid Box o Commun	1 rocatio	n ;		Descri	
☐ Ambulance	The HydrantWater	Pump/Buckets/No.		,	Inate	
A	2 First Aid Box C Commur	nication Fouriers -	Smoker	as Detec	torn s	
S FA		-doibust 0 O	her:		or a chierBeuch !!	ght: .
	1876	CHECKLIST	• ,			
	10		Yes	No		
- 01 Pre-	guishers are in operable (	Condition			Comments	
'02 Pipe and		and not				
03 Lavera	ozzle do not have crack	S.	1	ال		
D4 + All audia	d. Fer p are in place an	dilocked		1		
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01   No leaks	SE/Bucke	accessible.	·			
02 Hydrant	ge in fire hydrap vs m.					
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ther Equipmen	t (If any)	- broughly functioning.				
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Samuel		•	,	•	•	
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The HSE&QA guidelines for suppliers and contractors are developed to assist suppliers/contractors to meet ssgc's hse&qa policies, procedures, commitment & requirements to ensure safety, integrity and

#### **給COPE**

The procedure is applicable to all suppliers and contractors providing goods or services to SSGC whether on SSGC premises or outside SSGC premises.

#### DEFINITIONS

- Contractor: Is an independent employer/organization who will be responsible to execute jobs ayreed the SGC;
- independent employer/organization that is responsible to provide goods or
- Contract coop mator: Is an executive of SSGC procurement department, who has been delegated/given responsibility and authority from the head of department to initiate and maintain the
- NEQS: National Environment rital Quality Standards.
- SEPA: Sindh Environment Direction Agency.

#### 4. RESPONSIBILITIES ...

## 4.1 Suppliers/Contractors and Sup

- The contractor must take all necessar contract in order to protect the work site in using all personnel and property of the SSGC, the ty precautions related to the performance of the confractor, all third parties involved.
- Suppliers/Contractors are responsible for safety a well-being of their employees.
- The contractor will also be responsible to provide relevant safety equipment (PPE) to their experience where required. Suppliers/Contractors who have their own HSE&OA management their own HSE&QA management system, shall provide details of the same on request.
- The contractor shall ensure that all personnel are adequately rained to perform the task assigned. e. Supplier/Contractor shall ensure compliance with SSGC police s, o edures and applicable legal and regulatory requirements.
- The contractor shall adhere to set standards and requirements for en al protection.

#### 4.2 Confract Coordinator

The contract coordinator is responsible to arrange training sessions/meetings between HSE&QA department within 10 days of Issuance of a letter to proceed.

#### 4.3 HSE&QA Department

- a. In-charge HSE&QA and contract coordinator are responsible to evaluate the capability and competence of Supplier/Contractor regarding HSE&QA,
- b. In-charge HSE&QA is responsible for providing necessary information and training to Suppliers/contractors regarding applicable SSGC's HSE&QA policies and procedures.
- HSE&QA department will carry out inspections and audits to ensure safety and well-being of employees and adherence to set standards, technical specifications and guidelines.
- In-charge HSE&QA is responsible to highlight critical nonconformances related to HSE&CA. Strict decisions may be taken against any violation/breaches of SSGC's safety policies/procedures/contract terms during the execution of contract.

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- The contract coordinator should ensure that this procedure is part and parcel of every contract made
- b. The contract coordinator must notify in-charge HSE&QA to evaluate the capability & commitment or potential suppliers/contractors regarding HSE&QA during technical evaluation phase.
- The contract coordinator arranges a meeting between supplier/contractor and HSE&OA department after issuance of letter to proceed. HSE&QA awareness form (SSGC-IMS/GSC-F-01) will be communicated and duly signed by supplier/contractor as well as HSE&QA department.
- HSE&QA department will conduct periodic inspection/audit of worksite/supplier facility to identify
- The contractor/supplier shall educate and adequately train their employees in order to understand.
- shall adhere to technical specifications provided by SSGC to ensure quality of goods The cont
- for mall perform hazard identification and risk assessment related to their activities for the proper implementation of possible controls/personal protective equipment (PPE) or otherwise consult SSGC's MAESOA department to seek guidance and awareness on risk/hazards related to h. The contract is liable
- where required. Please refer to rik assessment and management procedure (SSGC-IMS/CRM-02).

  The contractors are responsible to dispose of any waste generated during their activities in an estand and implement "permit to work (PTW), job safety analysis (JSA)" i. The contractors are responsible environmentally safe & responsible
- The contractors must ensure that cally
- carry out the required job. ged individuals meeting necessary requirements/skills will k. Any equipment used by contractor during
- Any equipment used by contractor during in policit must not pose any environmental and/or safety concerns, and should be in accordance with SSCC infarety procedures and NEQS and SEPA set standards. Any identified hazards discovered by the contract of that is beyond their ability and/or responsibility to fix must be immediately reported to the contract providing and HSE&QA department in writing.
- m. The contractors must ensure that the workforce involve that be physically fit and should not carry employee. Contractor will bear all expenses incurred during the legical examination/tests of any
- For contracts related to providing food services/canteen services in a cal reports from accredited contract is awarded and annually for following diseases hepatitis B r entire crew once the
- In case of violations from SSGC safety standards/policies/procedures, acu erculosis, and chest penalize the contractor depending on the severity/recurrence of breaches, as per following matrix:

S	Vo≟ ·	History Violation	ity/recurrence of breaches, as per following matrix
1	·	Single Minor Non Co.	Action
2	- 1	Multiple Minor N	Total Warning
3		Single Major Name	- The state of the
. 4		Multiple Major Non-Compliance	Written warning / Stop the work on site Written warning / Financial penalization, discontinuation of contract
		<i>D</i>	discontinuation of contract

ntegrated Management



#### ACCESS

Prior to comencement, the contractor will submit a list of their workforce personnel who will be on the site. This data will be updated each time the contractor changes site personnel.

by All contractor personnel should park vehicles in the designated parking area. Provisions should be made in advance by the contractor to allow for unloading of equipment and materials inside the facility property. No vehicles shall remain inside the building except for unloading tools or equipment and vehicles will be subject to search and inspection upon exit.

A written pass by the SSGC representative is required in order to remove tools equipment or material from SSGC property. Toolboxes, lunch box bags, etc., are subject to inspection prior to removal. SSGC will prosecute any person, or persons caught removing SSGC properly from the premises.

All contractor personnel should enter and leave premises through the main gate, and will be required to sign in ap out upon entering and exiting the property. Security will issue an ID badge to each person upon in and at the beginning of each day all contractors must receive a new badge from Contractor emit

es must stay in their assigned area(s) at the job site and not visit other areas or make any adjustments to any piece of equipment or device unless authorized to do so by an authorized SSGC representative, Fallure to abide by this work rule will result in immediate dismissal

from the facility and including prosecution.

Each zone maintains section areas with limited access at all times. No one is permitted to override any security device for expenience. If access to a secured area is required contact the SSGC representative for authorization. At posture should contractor or subcontractor employees enter the

Any work not performed during normal during ss hours must be approved in advance by the SSGC représentative.

All contractor employees will go through cor ag r safety/induction training upon initial work at SSGC and annually thereafter. A copy of authorized f) personnel for contractors will be updated and kept at guard shack.

## Tools and Property

- For any situation in which the Contractors activity may endanger posterior such as: drilling, welding, removing celling tile or any other job which creates metal fragments, stavings or dirt in exposed product of manufacturing equipment areas, approval must be made through the Searce resentative and conditional , approved by the ZTL or representative before work is to commence. The corner e resentative and conditionally established by the Zonal Team Leader or representative to protect the equipme must abide by conditions
- Soliciting, selling of any merchandise, gambling or distribution of literature for any cause forbidden on
- Use of company telephones is restricted, unless prior approva Pay telephones are not available.
- i. "Horseplay, throwing any object and scuffling are dangerous and forbidden,
- Cameras of any kind are not permitted in SSGC/ work site unless prior written approval is attained from
- Guns, knives of any other weapons are NOT allowed on company property in any case.
- SSGC expects all contractors and subcontractors to maintain a drug-free and alcohol-free workplace. Contractors shall maintain a substance abuse program that includes post-offer and for-cause festing. It will be the responsibility of the Contractor Management to inform their employees and subcontractors that the use of, or evidence of use of, intoxicating liquor or illegal drugs are prohibited at all times while on Zone property. Reporting for work under the influence of alcohol or drugs will not be tolerated. SSGC management reserves the right to remove any contractor or subcontractor employee from Zone property who is believed to be under the influence of alcohol or drugs. It will be the contractor's responsibility to enforce these rules. egit indertaktur frankrig diriyayayayaya ilda katalahayaya da kara

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Contractor activities are prohibited in overhead areas, of the Zone during the times of production or otherwise that may pose a hazard to personnel or product/material. Deviation from this section will be permitted only with the prior consent of the SSGC representative and affected area is isolated and marked off.

Contractor material will not be shipped directly to the Zone without approval of the SSGC representative.

# 6,2 Quality Assurance and Personal Hyglene

While working on SSGC premises or at any worksite;

- All persons shall maintain a high degree of personal cleanliness, conforming to the same SSGC standard
- Pens, pencils, tools and supplies must be carried in a secure manner to eliminate the possibility of product contamination or adulteration, (i.e., nothing is to be carried in shirt pockets, lapel, and etc.).
- Appropriate PES must be worn provide PPE to the inworkforce. DEs must be worn by all personnel, including dress as appropriate, Contractor is responsible to
- Proper clothing mur be worn at all times. No tank tops, cutoff shirts, or short pants will be allowed. Jewelry and rings are safely and anglamination hazards and are not to be worn in working areas.
- Persons with suspected to soundable diseases, respiratory infections, infected open cuts, sores or skin abrasions will not be permitted? work in any area, that could result in contamination of SSGC personnel.

  The use of tobacco in any form: The use of t

- The use or topacce in any form appropriate at all times except in the designated smoking areas.

  Chewing gurn, candy, storing lanchest eating or drinking beverages are not permitted in or adjacent to the SSGC premises and storage are so have will be a designated area for contractors to eat. (Cafeteria) in the event that there are open tanks.

  A osed product/materials, containers or storage, the contractor must erect temporary partitions to eliminate the possibility of any foreign material. (This shall include: grinding.) cutting, core drilling, masonry work, jack hambering, chipping, metal drilling, pipe threading, winng, welding
- and other hot work, etc., where any dust, mist, chips of their debris may be generated.)

  The use of containers, boxes, cans, jugs etc., or lolding or storing parts, lubricants, solvents or
- The contractor is responsible to notify the SSGC representations generated by the contractor's activity, was accidentally spill into pape area/ SSGC premises ntative immediately if foreign material used or
- Contractor will follow Spill Response Procedure' of SSGC in cases spill occurred.

# CONTRACTOR SAFETY REQUIREMENTS

# 7.1 General Safety Rules

- All applicable Occupational Safety and Environmental regulations must be follow
- Contractors shall supply to their personnel and to the SSGC representative; entire phone numbers, and pager numbers as well-as emergency procedures appropriate to the con-site work.
- Contractors shall provide the SSGC representative with a current copy of their Safety Program including: Confined Space Entry, Lockout/Tagout, and Hazard Communication procedures (if applicable) and
- The Contractor shall supply all required first aid supplies and safety equipment to support his/her personnel.
- Contractors are responsible for providing all required Personnel Protective Equipment (PPE). Contractor employees and subcontractors are required to adhere to all established and/or posted PPE requirements. while on SSGC property. Industrial grade safety shoes and safety glasses with side shields are required to be
- Only SSGC personnel may operate any valve, electrical switch or other equipment connected to operating sections of the Zone unless prior authorization has been obtained from the SSGC representative. Lockout/Tagout is the standard for energy isolation and MUST be adhered to at ALL times with no exceptions. Contractors are responsible for using their own locks and tags for completing their lockouts. In addition. SSGC personnel may initiate we/they lockout system to ensure compliance.

- Contractor, contractor employees or subcontractors are NOT-authorized to dismantle, shut down, or otherwise make ineffective any fire protection device or system. This requires a special permit obtained by the
- Materials, tools, equipment and supplies will be stored neatly and safely so as not to obstruct roadways, walkways, staliways, emergency doors etc., or allow any condition which may be a potential safety or fire hazard. No tools or materials should be left on steps, walkways, platforms elevated equipment, pipes or
- Materials are not to be thrown or dropped from scaffolds or other overhead areas:
- Fire lanes and alsies to firefighting equipment are to be left unobstructed at all times. Contractors are to provide fire extinguishers for each welding and burning operation and complete HOT WORK PERMITS.
- Material should not have been kept in such a way to block access to fire extinguishers, fire doors, hydrants or All electrical equipment must be properly grounded.
- m. Any lights carried into and used in a hazardous location must be explosion-proof type and suitable for use in
- plosive actuated fastening tools should be used according to the manufacturer's safety guidelines. ed gas cylinders must be supported and secured standing upright according to Pakistan
- standares. Vine hoses and valves are removed from cylinders, a protective cap is to be installed on all tanks when in use must have a wrench in place.
- Areas where overhand hazards, excavations or other unsafe conditions exist must be properly blocked off with appropriate warning signs. In the case of an excavation, barricades must be provided. In reference to night excavation projets, publights shall be provided by the contractor. In the event an oil, gas, var.
- other harmful volatile release is caused or discovered, the contractor and/or his employees shall report it a once the nearest SSGC office and request for further actions immediately.
- Any contractor, contractor employ pcontractor violating Zone area safety or security rules shall be subject to immediate dismissal.

## 7.2 Accident Reporting.

- a. Accidents occurring in Zone jurisdiction must be reposed immediately to the SSGC representative.
- b. In the event of a fire, medical or other emergency, contractors are required to notify zone security or the ESGC representative immediately. When providing new cation give all pertinent information, including your
- All contractor injuries requiring medical assistance beyond basic investigation within 24 hours of the occurrence (Contractor Accid it aid must be reported in writing with a full submitted to the SSGC representative for forwarding to the HSE& OF tigation Form). This report thust be
- d. All contractors and subcontractors must maintain their own OH&S require

# 7.3 Confined Space Entry

- The SSGC representative will notify the Contractor prior to being hired, if the confined spaces. The form included in documents will be used to make this notification viii involve entry into
- All Contractors who conduct confined space entries must adhere to the SSGC confined space entry
- At no time shall a contractor, contractor employees or subcontractors enter a confined space in Zone, without specific authorization from the SSGC representative. Failure to adhere to this policy-will result in
- d. All contractors are required to keep and maintain their own equipment for confined space entry.
- In the event of a confined space entry by contractors, their employees or subcontractor, a standby rescue team must be assembled in Zone assembly area. This rescue team may be SSGC personnel or contractor personnel, however, all arrangements must be made and documented prior to entry.
- All contractors and subcontractors who enter a confined space, serve as entry supervisors or rescue team members must have the appropriate training and certification according to the Zone requirements. Copies of all training certification documents must be provided to the SSGC representative & HSE&QA





# 7.4 Cranes and Overhead Work

- All Contractors who conduct work at height, e.g., all work occurring at an elevation above 72 inches Without standard railing must adhere to the SSGC Work at Height Réquirements.
- b, All work at height requires the use of a safety harness. All safety hamesses largyards and related fall protections equipment must comply with applicable local and ANSI/requirements.
- All contractor employees working in forklift baskets, scissors or man lifts are required to wear a safety harness. Working with cranes and demicks require compliance with the SSGC Lifting Equipment requirements and the equipment manufacture's recommendation. Zones and generally accepted practices for safely operating and rigging procedures and methods must be used.
- e. All cranes used on company properly must be inspected once per shift and any problems identified must be corrected prior to crane usage. Copies of all inspection records must be provided to the SSGC representative
- In the event and overhead work must occur in locations within the Zone where high voltage, overhead power lines are located and overhead lifting devices must maintain a 2 miles are located and overhead lifting devices must maintain a 2 miles are located and overhead power cranes and overhead lifting devices must maintain a 10-foot dearance. In the event proper clearance annot be maintained, the power lines are to be de-energized and locked guit prior to performing work in the went the lines must be de energized, prior approval must be given by the SSGC

#### 7.5 Hazardous Energy C DLockout) Procedures

- All contractors, contractor employee and subcontractors must comply with the SSGC Energy Control b. In the event that a contractor, contra
- amployee or subcontractor servicing or entering a piece of machinery where the danger of injury extension release of stored energy, the contractor or entr unexpected energizing of the equipment or unexpected lock/tag out this equipment before beginning work employee must disconnect the source of energy and
- c. In the event that SSGC employees or other unlarger persons have locked/tagged out equipment, the contractor is not to remove the lock/tag or energize the employeent. Likewise, the contractors are not to LO/TO any inachinery without approval of SSGC representative or remove LO/TO without communicating to all
- d. Contractors are required to supply their own lockout locks, tag
- e. In the event that a contractor or subcontractor has de energized and equipment specific lockour procedure must be adhered to. A ked out a piece of equipment, the subcontractor can acquire the specific equipment lockout procedures from
- The lockout tag used by the contractor must have the contractor's phone number a

# 7.6 Zone Equipment and Tools

- Contractors will provide their own equipment to their employees.
- b. The use of SSGC vehicles and equipment is prohibited for contractors. Contractors can only acquire this authorization from the Zonal Team Leader. Authorization, when provided, will be documented by use of the Equipment Loan and Indemnification Agreement. Use of all shop equipment is prohibited.
- Misuse of SSGC material, equipment or products is prohibited.
- d. The use of SSGC powered industrial vehicles (i.e. forklifts) is strictly prohibited. In the event that SSGC forklifts are required, they can only be operated by certified SSGC employees. There will be no exceptions to this policy. Any contractor, contractor employee or subcontractor who operates an SSGC forklift will be
- e. All contractors, contractor empioyees' or subcontractors who operate a powered industrial vehicle in Zone Area





## Hazard Communication

- Contractors, contractor employees or subcontractors who bring hazardous chemicals on-site, must prior to
- Provide the SSGC representative with a listing of all hazardous chemicals.
- Property label all containers, adhering to SSGC Jabeling requirements:
- Provide the SSGC representative with copies of all SDSs (Safety Data Sheet) for the hazardous chemicals. b. '
- The SSGC representative will provide all contractors with a list of hazardous chemicals that the contractor contractor employees, or subcontractors will come in contact with during the work on Zone property.
- At no time should hazardous materials or fuels be left unattended in open containers or unsecured areas overnight, during weekends, or during holiday periods. Temporary storage of such material must be reviewed
- use or storage of explosives or other hazardous materials or equipment is necessary for the on of the work, the Contractor shall exercise the utmost care and small carry on such activities under the supervision of soperty qualified personnel and in conformance with all applicable Zone Requirements and local environments and safety regulations.

  The contractor mail be responsible for all necessary Personal Protective Equipment (PPE), training, and
- of all hazardous substances in use at the job site and of the appropriate safety procedures and polic

## Emergency Procedures

- In the event of a fire, medical or other endeancy, Contractors are required to notify zone security or the SSGC representative immediately. Tell the security personnel the location of the tire and any other pertinent. In the event of a fire, medical or other information. In the event that Zone security of SSGC representative cannot be reached, evacuate the area possible. All contractors, contractor employees and subc
- All contractors, contractor employees and subcontractors are required to exit the work are abuilding in the
- event of emergency alarm activation or if instructed to n SSGC representative. In the event of an evacuation, contractors are required to go directly to the emplo staging area located at guard strack

# Gasoline and Propane Powered Equipment

- Contractors are required to inform the SSGC representative of any prothat is to be used indoors.
- SSGC Management discourages the use of internal combustion engines inc no reasonable alternative means are available to complete the job.

# 7.10 Temporary Electrical Connections

- All wiring & electrical installations are expected to follow National Electric Code practices.
- All temporary electrical hook-ups for equipment must be approved by the SSGC representative, prior to installation. All temporary installations must be removed as soon as the task requiring them is complete.
- Electrical outlets for portable power tools not a part of permanent wining of the building should have



# 7.11 Cutting, Welding and Other Hot Work

- All Contractor and subcontractor employees must comply with the SSGC Cutting, Welding and Other Hot
- The SSGC representative will issue the Cutting-Welding-Hot Work Permit after confirming that the
- The permit is valid for ONE SHIFT ONLY. When the work overlaps with the next shift, the SSGC
- The contractor employee designated as the "fire watch" shall sign the permit after the final check has been made and return the signed permit to the SSGC representative.

# and Scaffolding.

- All landers in longing to the contractor must be labeled with the contractor's SSGC and possess safety feet and mest specific work at Height Requirements.

  All ladders used on Zone property must be properly secured.
- All scaffolding must be equipped with railings and toe boards.
- All "swinging" type a affords must be inspected by the contractor and repaired if necessary before use.

  All overfiead work from a secured safety cage. Standing on forks or pa if must be conducted from a secured safety cage. Standing on forks or pallets

# 8. CONTRACTOR ENVIRON ENTAL RULES

SSGC requires that contractors comply applicable environmental rules & regulations.

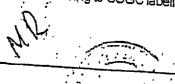
# 8.1 Non-Hazardous, Waste

- Construction refuse and debris will not be allowed accumulate and will be removed daily by the contract document.

  Contractors shall take ownership of all waste and debris generated from materials they brought to the
- erated from materials they brought to the job laws and regulations. and debris in accordance with all applicable
- Reference to SSGC, The SSGC Company or any of its tradentalism. If not be used in any documentation d.
- Contractors shall coordinate with the Zone, whenever practical, to s recycled or re-used in a safe and environmentally responsible manner.
- Worksites may be periodically inspected by the SSGC representative to ensure its obligations under its contract. Final payment will be withheld until such time its obligations under its contract, rinal payment will be withheld until such time as the worksite and property have had a final inspection and removal of all containers, debris, wastes and materials has been confirmed by the SSGC representative and documentation has been printed that all hazardous wastes have been
- For those contractors working outside, it is illegal to dispose of any liquid, including water, onto the ground/outside drain for any reason. All water, provided it was not contaminated, shall be disposed of at a

# 8.2 Hazardous Materials

- Contractors, contractor employees or subcontractors who bring hazardous chemicals on-site, must prior
  - i. Provide the SSGC representative with a listing of all hazardous chemicals.
  - ii. Provide the SSGC representative with copies of all MSDSs for the hazardous chemicals. iii. Properly label all containers, adhering to SSGC labeling requirements.



landBook | February 2022





- No hazardous wastes will be placed or discarded into any drain or sewer on SSGC property. Sewers include: process sewers, sanitary sewers and stormwater sewers. Contractors shall use drain covers, dikes or other appropriate means to prevent a potential release into a drain. In the event that material enters an SSGC sewer, the contractor shall notify the SSGC representative immediately.
- Contractor is solely responsible for any and all hazardous wastes generated by contractor's activities on the property. All hazardous material/waste generated by contractors must be disposed of in an approved container and properly labeled. It is the contractor's responsibility to properly dispose of all waste and hazardous materials, and remove containers that store or contain any waste or hazardous materials. Such containers/materials shall be removed from SSGC's property daily and shall be property disposed of by the contractor/supplier in accordance with all applicable Federal, State and Local laws, rules and regulations, No waste, containers, debris, etc., are to be disposed of in SSGC dumpsters by Contractor, Without approval from the SSGC representative. At no time should hazardous waste be manifested or labeled with reference SGC Company or any of its zones or subsidiaries without enthorization from the SSGC
- ssuire that all employees dealing with hazardous materials and hazardous wastes have had all legally equired training and are familiar with the hazards presented by such wastes or materials.

# 8.3 Spill Response Price ires

- Each contractor is required e a written emergency response plan to handle spills and releases which may occur during transport delivery truse of hazardous materials at the SSGC work site. The contractor must provide a copy of its emerger contractor plan to the SSGC representative prior to beginning work.

  Each contractor must provide and be complied with appropriate spill response equipment. All contractors,
- contractor employees or subcontractors vib lage in the emergency response of a hazardous material release must have been trained and have the appropriate spills response certification and meet response
- Contractor must provide documentation to verify a has contracted with at least one reputable outside spill response contractor, that is reasonably agreeable 153 GC, to respond to larger spills or releases which may occur during transport, delivery or use of hazardous lateries.
- The contractor shall be responsible for appropriate clean-up will include removal or remediation of any materials impacted by le caused by their activities. Such clean-up groundwater or surface waters, etc. spill; such as; building materials, soil,
- In the event that a spill or release of contractor's material occurs on not respond to the release to the satisfaction of SSGC, SSGC shall he ty and the contractor does necessary steps to respond to or remediate such spill or release. The Compacto ht to take any reasonably all costs incurred by SSGC to respond to such spill or release. all reimburse SSGC for
- Spills and releases of hazardous materials must be reported immediately by in representative.
- Any spill or release that exceeds an applicable reportable quantity must be reported by the contractor to the appropriate governmental agencies according to applicable laws and regulations. Prior to notifying the responsible outside parties (i.e., povernmental agencies), contractor shall first inform SSGC of its intent to
- Contractor is also bound to follow SSGC's 'Spill Response Procedure

## 8.4 Special Circumstances

SSGC acknowledges that, from time to time, specific work regarding hazardous materials investigation or response may occur. Under such circumstances, the contractor shall supply a copy of the Work Plan (WP) and Health and Safety Plan (HASP) to SSGC for review and approval prior to commending work ing the strain provided in the provide



# CONTRACTOR ACCEPTANCE OF WORK RULES AND REQUIREMENTS

All contractors are required to sign a statement that they have received a copy of this program and have read and understand the program. Each contractor shall sign the following Contractor Acceptance of Work Rules and Requirements form and return it to the SSGC representative. A copy will be kept in the project management file

In consideration of admission to the premises of SSGC, we agree to hold in strict confidence and not to divulge to any other person or entity all proprietary information observed or disclosed by SSGC personnel. This includes Information that relates to SSGC's past, present, or future research, development and business activities or any client or customer to whom SSGC provides services and/or materials. We will not remove any document, r equipment, nor photograph or record any data without specific written permission from a duly

stidentiality will terminate only when and as SSGC proprietary information becomes public This agreen knowledge.

We have read and understood the visitor agreement and will abide by the document while visiting the SSGC

## CCEPT OCE OF WORK RULES AND REQUIREMENTS 10. CONTRACTOR

The undersigned hereby acknowledge, that we have received a copy of the SSGC Contractor Work Rules, We have read and will be able to ablde by the items listed in the SSGC Contractor Work Rules. We understand and The undersigned hereby acknowledge agree that any persons and/or contractors w vi) late these rules will not be permitted to work for SSGC. We also understand that we are responsible for ensure contractor anti/or subcontractors that we hire, contract at all employees working directly for us, as well as any h these rules.

Compliance with the SSGC Contractor Work Rules does not in any way relieve any contractor or person from complying with any applicable Federal; Provincial or local safe of nyironmental and other regulations which may exclusive discussion of any and all legal requirements applicable for are ments and Zone policies. They are not an adors and/or suppliers.

The undersigned represents and warrants that we shall comply with all a like ble Federal, State and Local laws, regulations and rules while we are engaged to work or perform services for \$3.50 including but not limited to any and all OSHA, Federal, EPA, Sindh, and other health, safety, and environmental quirements. In addition, in consideration of SSGC hiring us, we hereby agree to indemnify and hold harmless SSGC against any and all considerations. ilability; including defense cost and attorneys' fees, adsing from or relating to breach the above warranty and/or any violation of applicable laws, requisitions and/or rules. any violation of applicable laws, regulations and/or rules.

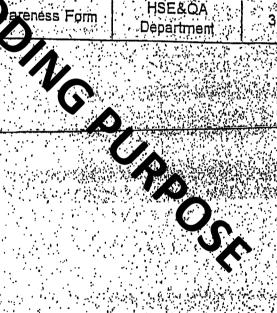


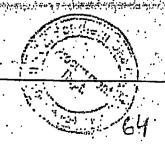
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#### 11. DOCUMENTED IN FORMATION

Record No.	Retention Maintained by Period
SSGC-IMS/GSC-F-01	

12







# IMS Form

SSGC-IMS/GSC-F-01

HSE&QA Awareness Form (Guidelines for Suppliers and Contractors)

Revision 01

Issúe Date: Aug, 2021

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FISE&QA Department

# PENALIZATION MECHANISM

SSGC-HSEQP-F-(n

Issue Date: Sep. 202

for Service Confacts Only

#### 1. Penalization

SSGC management reserves the right to penalize the service contractors in case of any nonconformance during course of the project (addressed in respective ToR / Tendor Documents in detail). Penalization will vary according to severity of nonconformance and mode of penalization is provided in respective Terms of References. SSGC management decides the mode and degree of penalization.

1.1 Peralitation mechanism

Following now hart depicts the mechanism/ hierarchy, which will be followed for the penalization of the contractor. Penalization Form and Annexure-J-1 can be found below.

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Joseph Timby



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Use & QA Department for Control	ON FORM	Revision 01
Department for Service Contr	acts Only.	Issue Date: Sep. 2
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SSC;C HSE&QA Department

# PENALIZATION MECHANISM

ANNEXURE J-1

SSGC-HSEOP-F

Revision () (

Issue Date: Sep. :

S. No. Nature of Non-Compliance Mode of Penalization HSE 1st Time -Verbal Warning hom site in charge PPE related - Written warning Explanation Letter 3rd Time - Removal of worker from duties 1<sup>st</sup> Time —— Stop work
2<sup>std</sup> Time —— Stop work along with Act / Unsafe Condition written warning letter

3rd Time Remov - Removal from duries Not reporting an major incidents within the time frame specif n Tender documents / Financial Penalization up to Rs, 200,000 HSE&OA Plan for each accident No proper tag out lo de de arrication 1st time — Warning Letter

2nd time — Stoppage of Work

3rd Time — Financial Penalization up to signage compliance as advise representative(s) at Site or men to SOPs, work instructions or ToRs. signage boards and syste 3% (Max.Rs. 200,000 can be penalized): Quality manpower (Organogram) submitted in tende of unavailable staff, as listed in lacat documents related documents Non-Compliance related to Quality Parameters outlined in ToR, BOQ, applicable international 6 Ath invoice amount of the Standards & Codes and SSGC's SOPs. Reporting Non Submission of time bound reports (as Financial penalization up to 2% of the mentioned in Tender documents / Construction invoice amount of the billing period Unavailability of documents such as drawings, SOP manuals, inspection reports and other Explanation letter Technical data at site office. Providing wrong / insufficient information in... Financial penalization invoicing pertaining to equipment and Up to 2% of the invoice amount of the manpower, and the second secon billing period Financial Penalization up to 3% of it False reporting, misleading information 10. amount of the hilling period

Department

## PENALIZATION MECHANISM Cornec Contracts ANNEXURE JE

SSGC-HSEQP-F-10

Revision 01

Issue Date: Sep. 20

# Ethics & Conduct.

Non-cooperation with SSGC team by any staff of Contractor. Non-cooperation includes nonsharing of construction site data, supporting documents, future work execution strategies etc. compliance of Company protocols or instructions related to works given by SSCC's representative(s).

Removal from duties in case the request made against this non-Compliance

Note: Approval will be taken from contract owher i.e. User Departmental Head,

catedly (03) absence/Unavailability of site auors staff during surprise visits of

Financial penalization (One day salary deduction of entire site staff of audited sile;

nount will not exceed the 5% of the total contract value.

Three (09) no Th Fendlize to smouth will not exceed the 270 of the mind community for the first of mind the mind the mind the first of the cement will decide to impose additional penalization (e.g. forfeiting of Performance Bank out rantee / retention money), termination of contract or temporary blacklist (Blacklisting out to one (01) year

ents and penalization are outlined in tender decuments?





