



# SUI NORTHERN GAS PIPELINES LIMITED

GAS HOUSE, 21 KASHMIR ROAD, P.O. BOX 56, LAHORE (PAKISTAN)

103

Reference: RA-TAR-18-19(P)-050

Date: November 07, 2018

### Registrar

Oil and Gas Regulatory Authority  
Fazel I Haq Road, Blue Area  
Islamabad.

Dear Sir,

### PETITION FOR REVIEW OF ESTIMATED REVENUE REQUIREMENTS FOR FY 2018-19

Further to our earlier letter Nos. RA-TAR-18-19(P)-041 dated October 16, 2018 and RA-TAR-18-19(P)-045 dated October 31, 2018 wherein the Company has filed the Petition for Review of Estimated Revenue Requirements for FY 2018-19.

In this regard, it is submitted that the subject petition is being revised based on the following two projects approved by the Board of Directors (BOD) in its 513<sup>th</sup> meeting held on October 31, 2018:

- 1) Augmentation / Bifurcation of Gas Network in Lahore City (Phase-I amounting to Rs. 3,424 million).
- 2) Low gas pressure in Bahawalpur and Lodhran-System Augmentation (amounting to Rs. 1,931 million).

The Company has already taken up these projects with OGRA vide letter No. RA-TAR-18-19(P)-048 (*Annex-A*) and RA-TAR-18-19(P)-049 (*Annex-B*) dated November 06, 2018.

Accordingly, the segment wise detail of shortfall in Review of Estimated Revenue Requirement related to indigenous gas business (including LPG) and LNG business is given as under:

Description	Amount (Rs. in million)
Indigenous gas business (Including LPG)	90,251
Cost of Supply of LNG business	30,475

REGISTRAR OFFICE  
DATE: 7/11/18  
TIME: 02:50 PM

Revised petition is enclosed.

With best regards,

*Dr. (on leave) 12/11/18*  
*The instant petition is in continuation of SNGPL's earlier RERR Petition, and Add has already been forwarded to Finance Dept. Therefore, the same may be forwarded to Finance Dept. for their reply, please.*  
 Yours faithfully,  
 Sui Northern Gas Pipelines Ltd



(LIAQAT ALI)  
Chief Officer (RA)  
for Managing Director

*A13/11*  
*ED (Case)*  
*Jaxp/11*  
*12/11*

Encl: As Above

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PETITION FOR REVIEW OF  
ESTIMATED REVENUE  
REQUIREMENT  
FOR FY 2018-19



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SUI NORTHERN GAS PIPELINES LIMITED  
PETITION FOR REVIEW OF ESTIMATED REVENUE REQUIREMENT  
FOR FY 2018-19

<ul style="list-style-type: none"><li>• Form under Rule 4 of the Natural Gas Tariff Rules 2002</li><li>• Tariff Sheet &amp; Prescribed Prices Schedule</li></ul>	1
<ul style="list-style-type: none"><li>• Gas Sales Schedules</li></ul>	2
<ul style="list-style-type: none"><li>• Cost of Gas Sales Schedules</li><li>• GIC</li></ul>	3
<ul style="list-style-type: none"><li>• Regulatory Asset Base Calculations</li></ul>	4
<ul style="list-style-type: none"><li>• Power of Attorney</li><li>• Annexures</li></ul>	5

***SUI NORTHERN GAS PIPELINES LIMITED***  
***Review of Estimated Revenue Requirements under***  
***section 8(2) of OGRA Ordinance 2002.***  
***For Financial Year 2018-19***

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## Schedule I of Tariff Rules 2002

<b>APPLICATION FORM</b>	
Reference number	Date November 07, 2018
<b>Company Profile</b>	
1. Name of the Petitioner	
<ul style="list-style-type: none"> <li>Sui Northern Gas Pipelines Limited</li> </ul>	
2. Full address of the Petitioner	
<ul style="list-style-type: none"> <li>21, Kashmir Road, Lahore 54000</li> </ul>	
3. The grounds giving rise to the Petitioner's interest forming the basis of the Petition	
<ul style="list-style-type: none"> <li>Petition for Review of Estimated Revenue Requirement FY 2018-19</li> </ul>	
4. Number and details of the License	
<ul style="list-style-type: none"> <li>License number NG 002/2003</li> </ul>	
<b>Transmission of Natural Gas</b>	
<ul style="list-style-type: none"> <li>i. Construction and operation of pipelines for the purpose of transmission of natural gas; and,</li> <li>ii. Transmission of natural gas through transmission system of the Licensee</li> </ul>	
<b>Distribution and Sale of Natural Gas</b>	
<ul style="list-style-type: none"> <li>i. Construction and operation of pipelines for the purpose of distribution and sale of natural gas throughout the territories of Province of Punjab, North West Frontier Province (NWFP), Federal Capital, Federally Administered Tribal Area (FATA), Azad Jammu and Kashmir (AJK) and those areas of Province of Sindh where the Licensee operates natural gas distribution system prior to the date of issuance of the License and ;</li> <li>ii. Distribution and sale of natural gas through the distribution system of the Licensee within its authorized area, with an exclusive right till 30<sup>th</sup> June 2010 to distribute and sell natural gas to its existing consumers and such consumers as are connected to its distribution system on or before 30<sup>th</sup> June 2005.</li> </ul>	

5. State, in concise manner, the grounds and facts forming the basis of the Petition and the relief or determination sought from the Authority.

- Augmentation / Bifurcation of Gas Network in Lahore City.
- Low Gas Pressure in Bahawalpur and Lodhran-System Augmentation

Based on the above and other related factors, there is a shortfall of Rs. 90,251 million for normal business (including LPG) and a shortfall of Rs. 30,475 million in Cost of supply of LNG business.

6. Summary of evidence giving brief particulars of the data, facts and evidence in support of the Petition.

- Statement showing Revenue Requirement calculation is attached.

7. Other Petitions filed by the Authority at the time of the filing of this Petition and which directly and significantly of any material effect the grant and denial of those Petitions will have on those other Petition.

- Review Petition against Motion for Review of FRR FY 2016-17
- Petition for Final Revenue Requirement FY 2017-18
- Motion for Review against DERR FY 2018-19

8. Petition to be accompanied by details of the following market data

- Number and consumption details of consumers likely to be affected by the Petition
- If the Petitioner is a licensee, an estimate of the volume of natural gas to be transmitted, distributed and sold.
- The Petitioner's total annual peak day natural gas requirement; and
- The Petitioner's forecast of yearly capital expenditure for four years including year under review

November 07, 2018

  
(LIAQAT ALI)  
Chief Officer (RA)  
for Managing Director

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Forecast of Yearly Capital Expenditure

Rupees in million

	2018-19	2019-20	2020-21	2021-22	2022-23
LAND FREEHOLD	4	35	35	35	35
BUILDING ON FREEHOLD LAND	185	100	100	100	100
TRANSMISSION MAINS	4,326	122,493	14,000	14,000	14,000
DISTRIBUTION MAINS	17,414	11,138	12,987	14,935	17,325
COMPRESSORS STATION EQUIP.	423	365	473	473	473
TELECOMMUNICATION EQUIPMENT	42	15	15	15	15
PLANT AND MACHINERY	405	700	900	900	1100
MEASURING AND REGULATING	7,438	9,268	9,268	9,268	9,268
TOOLS AND EQUIPMENT	27	250	250	250	250
MOTOR VEHICLES	193	300	300	300	300
CONSTRUCTION EQUIPMENT	238	200	200	200	200
FURNITURE & FIXTURES	75	50	50	50	50
OFFICE EQUIPMENTS	28	50	50	50	50
COMPUTER HARDWARE	346	200	200	200	200
COMPUTER SOFTWARE SYSTEM	0	100	100	100	100
UPGRADATION OF CC&B PROJECT	32				
SCADA SYSTEM	-	-	-	-	-
CARRY FORWARD PROJECTS	0	-	-	-	-
PRINCIPALLY APPROVED PROJECTS	36,606				
REVIEW OF ERR 2018-19	16,049				
<b>Total</b>	<b>83,832</b>	<b>145,264</b>	<b>38,928</b>	<b>40,876</b>	<b>43,466</b>

New Consumers

Connections		Total
Industrial	No.	300
Commercial	No.	3,000
Domestic	No.	600,000
	<b>No.</b>	<b>603,300</b>

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## **AFFIDAVIT**

I hereby certify and declare that the information given in the Review of Estimated Revenue Requirements FY 2018-19 is correct and complete in all respects to the best of my knowledge.

Sui Northern Gas Pipelines Ltd

  
**(LIAQAT ALI)**  
**Chief Officer (RA)**  
*for Managing Director*

**Date: November 07, 2018**

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**SUI NORTHERN GAS PIPELINES LIMITED**  
**TARIFF CALCULATION SHEET**  
**Petition for Review of Estimated Revenue Requirements**  
**For Financial Year 2018-19**

Particulars	Petition Related to Normal Consumers	Petition Related to LPG Air Mix	Total	Petition Related to LNG Consumers		
<b>1 Gas Sales</b>						
1A Sales Volume	MMCF	435,187	48	435,235		
1B Sales Volume	BBTL	424,271	61	424,432	294,536	
1C Calorific Value	BTU	975.15	1,270.83	975.18		
		<i>Rupees in million</i>	<i>Rupees in million</i>	<i>Rupees in million</i>		
<b>2 Net Operating Revenue</b>						
Sales at Sale Price		217,351	37	217,388		
Rental and Service Charges		2,135	-	2,135		
Surcharge & Interest on Gas Sales Arrears (LPS)		4,719	-	4,719		
Amortization of Deferred Credit		3,152	-	3,152		
Other Operating Income		2,200	-	2,200		
<b>2A Total Income</b>		<b>229,557</b>	<b>37</b>	<b>229,594</b>	<b>-</b>	
<b>Less: Expenses</b>						
Cost of Gas/RLNG Sold		220,623	125	220,748		
UFG disallowance		(9,974)	-	(9,974)		
Operating Cost as per DERR FY 2018-19		8,616	-	8,616		
Operating Cost of New Regions/CSC/CC		1,078	-	1,078		
HR Cost (Net of Capital Allocation)		19,708	-	19,708		
HR Cost of New Regions/CSC/CC		1,317	-	1,317		
Gas Internally Consumed		1,565	-	1,565	4,729	
Depreciation		21,238	70	21,308	4,480	
Late Payment Surcharge (Payable)		1,638	-	1,638		
Corporate Social Responsibility (CSR)		496	-	496		
Operating Cost for upgradation of CC&B		15	-	15		
Finance cost for Working capital		225	-	225		
Interest Expense on LNG Loan		-	-	-	4,019	
Transportation Charges payable to SSGC		-	-	-	8,470	
WPPP		1,138	-	1,138		
Foreign Training of BOD and Senior Management		14	-	14		
Operating Cost Technical Audit		30	-	30		
Insurance (Loss of Profit)		115	-	115		
Operating cost of Demonstration Project for Gasification		4	-	4		
<b>2B Total Expenses</b>		<b>267,846</b>	<b>195</b>	<b>268,041</b>	<b>21,698</b>	
<b>2C Return obtainable (2A - 2B)</b>		<b>(38,289)</b>	<b>(158)</b>	<b>(38,447)</b>	<b>(21,698)</b>	
<b>3 Required Return on Net Fixed Assets</b>						
Net Operating Fixed Assets at Beginning		117,958	-	117,958	52,360	
Net Operating Fixed Assets at End		180,084	1,192	181,275	48,348	
<b>3A AVERAGE NET ASSETS</b>		<b>149,021</b>	<b>596</b>	<b>149,617</b>	<b>50,354</b>	
Deferred Credit Opening		20,586	-	20,586		
Deferred Credit Closing		20,934	-	20,934		
<b>3B AVERAGE DEFERRED CREDIT</b>		<b>20,760</b>	<b>-</b>	<b>20,760</b>	<b>-</b>	
<b>3C Average Net Operating Fixed Assets (3A - 3B)</b>		<b>128,261</b>	<b>596</b>	<b>128,857</b>	<b>50,354</b>	
<b>3D Required Return on Net Assets - In Percentage</b>		<b>17.43%</b>	<b>17.43%</b>	<b>17.43%</b>	<b>17.43%</b>	
<b>3E Required Return (3C x 3D)</b>		<b>22,356</b>	<b>104</b>	<b>22,460</b>	<b>8,777</b>	
<b>4 (Surplus) / Shortfall for FY 2018-19</b>		<b>60,645</b>	<b>262</b>	<b>60,907</b>	<b>30,475</b>	
<i>Increase/(decrease) in Prices for FY 2018-19 (without shortfall pertains to previous years)</i>		142.91	4,295.41	143.50	103.47	
4(a) Cumulative Previous Years Shortfall (staggered over 04 years)		29,344	-	29,344		
4(c) <b>Cumulative (Surplus)/ Shortfall</b>		<b>89,989</b>	<b>262</b>	<b>90,251</b>	<b>30,475</b>	
<b>5 Total Increase / (decrease) in prices</b> <i>(including shortfall pertains to previous years) effective 1st July 2018</i>						
		<b>Rupees Per MMBTU</b>	<b>212.05</b>	<b>4,295.41</b>	<b>212.64</b>	<b>103.47</b>
Cost of Supply of RLNG already determined by OGRA (Rupees Per MMBTU)					61.30	
<b>Increase required in Cost of Supply w.e.f. 1st July 2018 (Rupees Per MMBTU)</b>					<b>42.17</b>	

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**Existing and Suggested Prescribed Prices as per  
Rule 4(4)b**

	<i>Average Prescribed Prices Rupees per MMBTU</i>	<i>Revised Average Prescribed Prices Rupees per MMBTU w.e.f 01.07.2018</i>
<b>1 Domestic consumers</b>		
<b>A <u>STAND ALONE METERS</u></b>		
<b>B <u>mosques, churches, temples, madrassas, other religious places and hostels attached thereto</u></b>		
Upto 100 Cubic Meters Per Month- All Offtakes at the rate of	455.21	667.85
Upto 300 Cubic Meters per Month- All Offtakes at the rate of	455.21	667.85
Over 300 Cubic Meters Per Month- All Offtakes at the rate of	455.21	667.85
<b>B</b> Government and semi-Government offices, hospitals, Clinics, Maternity Homes, Government guest houses, Armed Forces messes and langars, universities, colleges, schools, private educational institutions, orphanages and other charitable institutions along with Hostels and Residential Colonies to whom Gas is supplied through bulk meters including captive power		
All off-takes at flat rate of	455.21	667.85
<b>2 <u>COMMERCIAL CONSUMERS</u></b>		
All establishments registered as commercial units with local authorities or dealing in consumer items for direct commercial sale like cafes, milk shops, tea stalls, canteens barber shops, laundries, tandoors, places of entertainment like cinemas, clubs and theaters, private offices, corporate homes etc.		
All off-takes at flat rate of	455.21	667.85
<b>3 <u>Special Commercial Consumer (Roti Tandoor)</u></b>		
<b>(a) Upto 300 M<sup>3</sup> per month</b>		
Upto 100 Cubic Meters Per Month- All Offtakes at the rate of	455.21	667.85
Upto 300 Cubic Meters per Month- All Offtakes at the rate of	455.21	667.85
Over 300 Cubic Meters Per Month- All Offtakes at the rate of	455.21	667.85
<b>4 <u>Ice Factories</u></b>		
All off-takes at flat rate of	455.21	667.85
<b>5 <u>General Industrial consumers</u></b>		
All consumers engaged in the processing of industrial raw material into value added finished products irrespective of the volume of gas consumed including hotel industry but excluding such industries for which a separate rate has been prescribed		
All off-takes at flat rate of	455.21	667.85
<b>6 <u>CNG Stations</u></b>		
All off-takes at flat rate of	455.21	667.85

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**Existing and Suggested Prescribed Prices as per  
Rule 4(4)b**

	Average Prescribed Prices Rupees per MMBTU	Revised Average Prescribed Prices Rupees per MMBTU w.e.f 01.07.2018
<b>7</b>	<b><u>Cement Factories</u></b>	
	All off-takes at flat rate of	455.21   667.85
<b>8</b>	<b><u>Fertilizer Factories</u></b>	
	<b>(a) Pak-American Fertilizer Limited, Daudkhel</b>	
	All off-takes at flat rate of	455.21   667.85
	<b>(b) Pak-Arab Fertilizer Limited, Multan</b>	
	All off-takes at flat rate of	455.21   667.85
	<b>(c) Dawood Hercules Chemicals Limited, Chichoki Malain, Sheikhpura District</b>	
	All off-takes at flat rate of	455.21   667.85
	<b>(d) Pak-China Fertilizer Limited/ Hazara Phosphate Plant Limited, Haripur</b>	
	All off-takes at flat rate of	455.21   667.85
	<b>(d) Engro Fertilizer Company limited</b>	
	All off-takes at flat rate of	455.21   667.85
<b>9</b>	<b><u>POWER STATIONS</u></b>	
	<b>(a) WAPDA's Power Stations and other electricity utility companies excluding WAPDA's Natural Gas Turbine Station, Nishatabad, Faisalabad</b>	
	All off-takes at flat rate of	455.21   667.85
	<b>(b) WAPDA's Natural Gas Turbine Station, Nishatabad, Faisalabad</b>	
	All off-takes at flat rate of	455.21   667.85
	Fixed Charge (Rupee per month)	390,000.00   390,000
	<b>(c) Liberty Power Limited</b>	
	All off-takes at flat rate of	455.21   667.85
<b>10</b>	<b><u>Captive Power</u></b>	
	All off-takes at flat rate of	455.21   667.85
<b>11</b>	<b><u>Independent Power Projects</u></b>	
	All off-takes at flat rate of	455.21   667.85

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SUN NORTHERN GAS PIPELINES LIMITED  
GAS SALES FOR THE FINANCIAL YEAR 2018/19

CATEGORY	AVG. GCV	SALE PRICE/ MONTHLY MTR	PRESUB. MONTHLY MTR	SALE PRICE/ MONTHLY MTR	PRESUB. MONTHLY MTR	MOMENTUM	MOMENTUM	MTR	SALE PRICE/ MONTHLY MTR	PRESUB. MONTHLY MTR	TOTAL SALE PRICE	PRESUB. MONTHLY MTR	TOTAL PRESC. PRICE	DIR
<b>WAJDA</b>														
MUZAFAR GARI	400.00	629.33	629.33	629.33	629.33	0	1	782	634.00	634.00	634.00	634.00	634.00	(0.175)
MA GARI SPS-M.T.SPS-OTIS-FSD-GIPS MIDKA	400.00	629.33	629.33	629.33	629.33	66	2,049	1,041,200	672,900	672,900	1,038,029	1,038,029	1,038,029	(185,540)
CHUDU POWER	400.00	629.33	629.33	629.33	629.33	66	2,049	1,041,200	672,900	672,900	1,038,029	1,038,029	1,038,029	(185,540)
RENTED POWER HUBB & SFP														
TOTAL WAJDA														
<b>EPS</b>														
KAYCO														
ROSCHE POWER														
PECL														
ENERGY POWER	490.00	629.33	629.33	629.33	629.33	31	1,569	1,069,384	423,834	423,834	672,131	672,131	672,131	(154,248)
ENSGRO FERTILIZER														
SAFARI POWER														
SAFE POWER														
SALAMERE														
HALABRE														
ALTEREN														
Bulak														
Ilwaki Bakalar Shah														
Robbi														
DAVIS														
XPK POWER														
LIBERTY POWER														
TOTAL EPS	469.45	629.33	629.33	629.33	629.33	46	2,983	1,886,266	841,128	841,128	1,419,624	1,419,624	1,419,624	87,002
<b>TOTAL POWER</b>														
FERTILIZER														
PAK AHAF														
FUEL														
DAVID BERG														
FUEL														
ENSGRO FERTILIZER	104.89	727.2	727.2	727.2	727.2	100	3,102	719,691	2,422	209,565	308,565	1,521,811	1,418,349	(10,977)
FUEL	600.00	629.33	629.33	629.33	629.33	9	282	719,691	204	122,362	122,362	122,362	122,362	(5,977)
HAZARA FERTILIZER	600.00	629.33	629.33	629.33	629.33	9	282	719,691	204	122,362	122,362	122,362	122,362	(5,977)
FUEL	600.00	629.33	629.33	629.33	629.33	9	282	719,691	204	122,362	122,362	122,362	122,362	(5,977)
PAK AMBRIAN	600.00	629.33	629.33	629.33	629.33	9	282	719,691	204	122,362	122,362	122,362	122,362	(5,977)
FUEL	600.00	629.33	629.33	629.33	629.33	9	282	719,691	204	122,362	122,362	122,362	122,362	(5,977)
<b>SUB TOTAL</b>														
CEMENT														
GENERAL INDUSTRIAL														
Territe et Zero rated														
CAPTIVE POWER														
CAPTIVE POWER - Zero rated														
CNC														
LNG-CNC														
COMMERCIAL														
SPL COMMERCIAL														
Up to 50 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	110	3,413	1,042,339	2,657	349,744	1,699,893	1,699,893	1,699,893	1,329,126
Up to 100 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	1	30	1,042,339	40	32,137	25,182	25,182	25,182	4,935
Up to 200 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	97	3,073	1,042,339	3,028	1,999,093	1,999,093	1,999,093	1,999,093	73,082
Up to 300 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	123	3,806	1,042,339	3,817	2,106,850	2,106,850	2,106,850	2,106,850	2,106,850
Up to 400 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	72	2,321	1,042,339	2,106	1,993,780	1,993,780	1,993,780	1,993,780	470,713
Over 400 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	378	11,956	11,956,344	11,956	36,077	33,574	33,574	33,574	2,463
<b>DOMESTIC</b>														
Up to 30 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	154	4,129	1,042,339	4,242	802,116	2,440,592	2,440,592	2,440,592	1,738,450
Up to 100 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	185	5,725	1,042,339	5,870	3,102,022	3,894,259	3,894,259	3,894,259	2,584,347
Up to 200 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	38	1,818	1,042,339	1,844	348,725	1,160,425	1,160,425	1,160,425	871,891
Up to 300 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	34	1,052	1,042,339	1,052	696,425	696,425	696,425	696,425	29,096
Up to 400 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	34	1,052	1,042,339	1,052	696,425	696,425	696,425	696,425	29,096
Over 500 M3 per Month- All take off at flat rate of	110.00	629.33	629.33	629.33	629.33	34	1,052	1,042,339	1,052	696,425	696,425	696,425	696,425	29,096
<b>Bulk domestic</b>														
Sub-1 - up to 300 CUM	600.00	629.33	629.33	629.33	629.33	1,035	32,091	6,680,803	36,081	12,551	39,177	39,177	39,177	6,220
Sub-2 - over 300 to 500 CUM	600.00	629.33	629.33	629.33	629.33	1,035	32,091	6,680,803	36,081	12,551	39,177	39,177	39,177	6,220
Sub-3 - All over 500 CUM	600.00	629.33	629.33	629.33	629.33	1,035	32,091	6,680,803	36,081	12,551	39,177	39,177	39,177	6,220
<b>GRAND TOTAL</b>														

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SUI NORTHERN GAS PIPELINES LIMITED  
 GAS SALES FOR THE FINANCIAL YEAR 2018-19

CATEGORY

CATEGORY	AVG. SALES (M TONS)	AVERAGE PRICE (PKR/TON)	TOTAL SALES (PKR)	MONTHLY SALES (PKR)					TOTAL SALES (PKR)	AVERAGE PRICE (PKR/TON)	TOTAL SALES (PKR)	AVERAGE PRICE (PKR/TON)	TOTAL SALES (PKR)	AVERAGE PRICE (PKR/TON)	TOTAL SALES (PKR)	AVERAGE PRICE (PKR/TON)
				JAN	FEB	MAR	APR	MAY								
<b>MALWA</b>																
MIZAFAR GARI	400.00	620.33	248,132													
MAGARI SPS-SML2 SPS-GTFS-ENELOTS SIDRA	400.00	620.33	248,132													
GUREDU POWER	400.00	620.33	248,132													
RENTED POWER BIKH & SPC	400.00	620.33	248,132													
<b>TOTAL MALWA</b>	1600.00	620.33	992,528													
<b>EPS</b>																
KAPCO	400.00	620.33	248,132													
ROUSHLI POWER	400.00	620.33	248,132													
FAPCL POWER	400.00	620.33	248,132													
RANCO POWER	400.00	620.33	248,132													
PATCO POWER BALOKI	400.00	620.33	248,132													
SABIR POWER	400.00	620.33	248,132													
SANAB POWER	400.00	620.33	248,132													
PAJADAR	400.00	620.33	248,132													
ALIBEN	400.00	620.33	248,132													
Haveli Bahadar Shah	400.00	620.33	248,132													
Brabs	400.00	620.33	248,132													
DAVIS	400.00	620.33	248,132													
LIBERTY POWER	400.00	620.33	248,132													
<b>TOTAL EPS</b>	1600.00	620.33	992,528													
<b>INDUSTRIAL</b>																
<b>TOTAL POWER</b>	400.00	620.33	248,132													
<b>FERTILIZER</b>																
<b>PAK ARAB</b>	400.00	620.33	248,132													
FUEL	400.00	620.33	248,132													
DAUP HERC	400.00	620.33	248,132													
FUEL	400.00	620.33	248,132													
RENBO FERTILIZER	400.00	620.33	248,132													
FUEL	400.00	620.33	248,132													
HAZARA PIDS.	400.00	620.33	248,132													
PAK AMERICAN	400.00	620.33	248,132													
FUEL	400.00	620.33	248,132													
<b>SUB TOTAL</b>	1600.00	620.33	992,528													
<b>CHEMICAL</b>																
<b>GENERAL INDUSTRIAL</b>																
Textile etc Zero rated	400.00	620.33	248,132													
<b>CAPTIVE POWER</b>																
<b>CAPTIVE POWER - Zero rated</b>																
<b>CNG</b>																
<b>LANG-CNG</b>																
<b>COMMERCIAL</b>																
<b>SPL COMMERCIAL</b>																
Up to 50 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 100 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 200 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 300 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 400 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 500 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Over 500 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
<b>DOMESTIC</b>																
Up to 50 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 100 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 200 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 300 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 400 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Up to 500 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
Over 500 MG per Month - All take off at flat rate of	400.00	620.33	248,132													
<b>Walk Inners:-</b>																
SIB-1 - 1000 TPD-C/G	400.00	620.33	248,132													
SIB-2 - 1000 TPD-C/G	400.00	620.33	248,132													
SIB-3 - 1000 TPD-C/G	400.00	620.33	248,132													
<b>GRAND TOTAL</b>	1600.00	620.33	992,528													

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501 SOUTHERN GAS PIPELINES LIMITED  
 GAS SALES FOR THE FINANCIAL YEAR 2018/19

CATEGORY	AVG. GCV	SALE PRICE (ADJUSTED)	PRESCRIBED MONTHLY	SALE PRICE (ADJUSTED) 2018/19	PUSHERS (DPRK) 19/20	MONTHLY	GCV	MONTHLY	September 2018 to September 10, 2018			TOTAL PURSC. CHARGES	FIXED PURSC. CHARGES	TOTAL PURSC. CHARGES	GDN
									PERCENT	SALE PRICE	FIXED CHARGES				
<b>WANDA</b>							101.74								
MUZAFAR GARI	400.00	629.55	629.55	629.55	629.55	0	1031.74								
MAGARI SPS-MLT-SFG-TIPS-F32-TIPS-MERA	400.00	629.55	629.55	629.55	629.55	50	1031.74								
GIDDU POWER	400.00	629.55	629.55	629.55	629.55	50	1031.74								
RENTED POWER RIKH & SK	400.00	629.55	629.55	629.55	629.55	50	1031.74								
<b>TOTAL WANDA</b>						150	1031.74								
<b>EPES</b>															
KAPCA	400.00	629.55	629.55	629.55	629.55	0	1031.74								
ROUSHI POWER	400.00	629.55	629.55	629.55	629.55	0	1031.74								
PERTI	400.00	629.55	629.55	629.55	629.55	0	1031.74								
ENRGO POWER	400.00	629.55	629.55	629.55	629.55	0	1031.74								
SAURABH MALIKI	400.00	629.55	629.55	629.55	629.55	0	1031.74								
SAR POWER	400.00	629.55	629.55	629.55	629.55	0	1031.74								
HALABRE	400.00	629.55	629.55	629.55	629.55	0	1031.74								
ALTERE	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Havdi Hakeeb Shah	400.00	629.55	629.55	629.55	629.55	0	1031.74								
HOBBI	400.00	629.55	629.55	629.55	629.55	0	1031.74								
DAVR	400.00	629.55	629.55	629.55	629.55	0	1031.74								
KPK POWER	400.00	629.55	629.55	629.55	629.55	0	1031.74								
LIBERTY POWER	400.00	629.55	629.55	629.55	629.55	0	1031.74								
<b>TOTAL EPES</b>						0	1031.74								
<b>TOTAL FERT</b>						150	1031.74								
<b>FERTILIZER</b>															
PAK ARAB	400.00	629.55	629.55	629.55	629.55	0	1031.74								
DAVID IERC	400.00	629.55	629.55	629.55	629.55	0	1031.74								
FUEL	400.00	629.55	629.55	629.55	629.55	0	1031.74								
ENRGO FERTILIZER	400.00	629.55	629.55	629.55	629.55	0	1031.74								
FUEL	400.00	629.55	629.55	629.55	629.55	0	1031.74								
HAZARA PHS	400.00	629.55	629.55	629.55	629.55	0	1031.74								
FUEL	400.00	629.55	629.55	629.55	629.55	0	1031.74								
PAK AMERICAN	400.00	629.55	629.55	629.55	629.55	0	1031.74								
FUEL	400.00	629.55	629.55	629.55	629.55	0	1031.74								
<b>SUB-TOTAL</b>						150	1031.74								
<b>GENERAL</b>															
GENERAL INDUSTRIAL	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Textile etc Zero rated	400.00	629.55	629.55	629.55	629.55	0	1031.74								
<b>CAPTIVE POWER</b>															
CAPTIVE POWER - Zero rated	400.00	629.55	629.55	629.55	629.55	0	1031.74								
<b>CNG</b>															
CNG	400.00	629.55	629.55	629.55	629.55	0	1031.74								
<b>LNG-CNG</b>															
<b>COMMERCIAL</b>															
<b>SPL COMMERCIAL</b>															
Up to 50 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Up to 100 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Up to 200 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Up to 300 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Up to 400 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Over 400 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
<b>DOMESTIC</b>															
Up to 50 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Up to 100 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Up to 200 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Up to 300 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Up to 400 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Over 400 MG per Month - All take off at flat rate of	400.00	629.55	629.55	629.55	629.55	0	1031.74								
<b>Bulk domestic</b>															
Sub-1 - up to 100 C/M	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Sub-2 - over 100 to 300 C/M	400.00	629.55	629.55	629.55	629.55	0	1031.74								
Sub-3 - All over 300 C/M	400.00	629.55	629.55	629.55	629.55	0	1031.74								
<b>GRAND TOTAL</b>															

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SUN NORTHERN GAS FUEL LINES LIMITED  
GAS SALES FOR THE FINANCIAL YEAR 2018-19

CATEGORY

CATEGORY	AVG. QTY.	SALE PRICE / MONTH	PRESUBSCRIBER MONTHLY AMOUNT	SALE PRICE / MONTH	PRESUBSCRIBER MONTHLY AMOUNT	SALE PRICE / MONTH	PRESUBSCRIBER MONTHLY AMOUNT	MOMENTUM	R BTU	FIRST QUARTER (JULY-SEP-18)			TOTAL PRESC. PRSCT	TOTAL PRESC. PRSCT	GDS
										SALE PRICE	PRESC. PRSCT	TOTAL			
<b>WAPDA</b>															
BEZAFAR GAREH	400.00	629.33	629.33	629.33	629.33	629.33	629.33								
MAGBARI SP-SK-LSPS-GTFS-FSD-GTFS-BEDRA	400.00	629.33	629.33	629.33	629.33	629.33	629.33								
GULSHI POWER	400.00	629.33	629.33	629.33	629.33	629.33	629.33								
RENTED POWER HRHB & SKP	400.00	629.33	629.33	629.33	629.33	629.33	629.33								
TOTAL WAPDA															
<b>JKR</b>															
CATCO	1	629.33	629.33	629.33	629.33	629.33	629.33								
RENTED POWER	1	629.33	629.33	629.33	629.33	629.33	629.33								
ENGRO POWER	4	629.33	629.33	629.33	629.33	629.33	629.33								
ORIENT POWER, MALOKI	1	629.33	629.33	629.33	629.33	629.33	629.33								
SAPRIE POWER	1	629.33	629.33	629.33	629.33	629.33	629.33								
SAFE POWER	1	629.33	629.33	629.33	629.33	629.33	629.33								
UJALMORE	1	629.33	629.33	629.33	629.33	629.33	629.33								
AUTERN	1	629.33	629.33	629.33	629.33	629.33	629.33								
Baluch	1	629.33	629.33	629.33	629.33	629.33	629.33								
Ilaveli Bahadur Shah	1	629.33	629.33	629.33	629.33	629.33	629.33								
Baluch	1	629.33	629.33	629.33	629.33	629.33	629.33								
DAVIS	1	629.33	629.33	629.33	629.33	629.33	629.33								
KPK POWER	1	629.33	629.33	629.33	629.33	629.33	629.33								
LIBERTY POWER	1	629.33	629.33	629.33	629.33	629.33	629.33								
TOTAL JPK															
<b>TOTAL POWER FERTILIZER</b>															
PAK ARAB	1	629.33	629.33	629.33	629.33	629.33	629.33								
FUEL	1	629.33	629.33	629.33	629.33	629.33	629.33								
DACT-HEBC	1	629.33	629.33	629.33	629.33	629.33	629.33								
FUEL	1	629.33	629.33	629.33	629.33	629.33	629.33								
ENGRO FERTILIZER	1	629.33	629.33	629.33	629.33	629.33	629.33								
FUEL	1	629.33	629.33	629.33	629.33	629.33	629.33								
HAZARA JUDS	1	629.33	629.33	629.33	629.33	629.33	629.33								
FUEL	1	629.33	629.33	629.33	629.33	629.33	629.33								
PAK AMERICAN	1	629.33	629.33	629.33	629.33	629.33	629.33								
FUEL	1	629.33	629.33	629.33	629.33	629.33	629.33								
<b>SUB TOTAL</b>															
<b>CEMENT</b>															
GENERAL INDUSTRIAL	1	629.33	629.33	629.33	629.33	629.33	629.33								
Tenth-ele Zero rated	1	629.33	629.33	629.33	629.33	629.33	629.33								
<b>CAPTIVE POWER</b>															
CAPTIVE POWER - Zero rated	1	629.33	629.33	629.33	629.33	629.33	629.33								
<b>CNG</b>															
LANG-CNG	1	629.33	629.33	629.33	629.33	629.33	629.33								
<b>COMMERCIAL</b>															
<b>NPL, COMMERCIAL</b>															
Up to 50 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Up to 100 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Up to 200 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Up to 300 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Up to 400 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Over 400 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
<b>DOMESTIC</b>															
Up to 50 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Up to 100 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Up to 200 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Up to 300 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Up to 400 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
Over 500 MG per Month - All take off at flat rate of	1	629.33	629.33	629.33	629.33	629.33	629.33								
<b>GRAND TOTAL</b>															

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SUD NORTHERN GAS PIPELINES LIMITED  
GAS SALES FOR THE FINANCIAL YEAR 2018-19

CATEGORY	A/C	SALE PRICE/ MONTHLY	VOLUME/ MONTHLY	SALE PRICE/ MONTHLY	MONTHLY	MOBILITY	B-BTU	MONTHLY		TOTAL SALE PRICE	PUBSC. CHARGES	FIXED CHARGES	TOTAL PRICE	GDS	
								SALE PRICE	MOBILITY						
WAJIDA	MUZAFAR QAMRI	400.00	629.33	629.00	629.33					1,031.74					
	MAGHARI SPS MALISFS-AGTTS-RSD/OTTS SIDRA	400.00	629.33	629.00	629.33					1,031.74					
	GURRU POWER	400.00	629.33	629.00	629.33	50	1,500	888.87	1,321,803.00	831,099	831,099	831,525	0.190	8,550 (0.450)	
	RENTED POWER BIRGH & SKP	400.00	629.33	629.00	629.33	50	1,500		1,321,803.00	831,099	831,525	0.190	831,525 0.152		
	TOTAL WAJIDA					100	3,000	888.87	2,643,606.00	1,662,198	1,662,198	1,662,198	0.380	17,100 (0.900)	
	JEES	KAPCO		629.33	629.00	629.33					1,031.74				
		RODSCHE POWER		629.33	629.00	629.33					1,031.74				
		PKFCI		629.33	629.00	629.33					1,031.74				
		GURRU POWER	400.00	629.33	629.00	629.33	50	1,500	888.87	1,321,803.00	831,099	831,525	0.190	8,550 (0.450)	
		CHENNAI POWER BALOKI		629.33	629.00	629.33					1,031.74				
SAPPHI POWER			629.33	629.00	629.33					1,031.74					
SAF POWER			629.33	629.00	629.33					1,031.74					
GAJALORE			629.33	629.00	629.33					1,031.74					
ALTERN			629.33	629.00	629.33					1,031.74					
Ballak			629.33	629.00	629.33					1,031.74					
KPK POWER	Haveli Bandpur Shah		629.33	629.00	629.33					1,031.74					
	Shikra		629.33	629.00	629.33					1,031.74					
	DAVIN		629.33	629.00	629.33					1,031.74					
	KPK POWER	400.00	629.33	629.00	629.33	50	1,500	888.87	1,321,803.00	831,099	831,525	0.190	8,550 (0.450)		
	LIBERTY POWER		629.33	629.00	629.33					1,031.74					
	TOTAL 1477	600.00	629.33	629.00	629.33	100	3,000	888.87	2,643,606.00	1,662,198	1,662,198	1,662,198	0.380	17,100 (0.900)	
	TOTAL POWER					100	3,000	888.87	2,643,606.00	1,662,198	1,662,198	1,662,198	0.380	17,100 (0.900)	
	FERTILIZER	PAK ARAB		629.33	629.00	629.33					1,031.74				
		FUEL		629.33	629.00	629.33					1,031.74				
		FUEL		629.33	629.00	629.33					1,031.74				
FUEL			629.33	629.00	629.33					1,031.74					
FUEL			629.33	629.00	629.33					1,031.74					
FUEL			629.33	629.00	629.33					1,031.74					
FUEL			629.33	629.00	629.33					1,031.74					
FUEL			629.33	629.00	629.33					1,031.74					
FUEL			629.33	629.00	629.33					1,031.74					
FUEL			629.33	629.00	629.33					1,031.74					
SUB TOTAL	CEMENT	780.00	629.33	629.00	629.33					1,031.74					
	GENERAL INDUSTRIAL	600.00	629.33	629.00	629.33					1,031.74					
	Territe etc Zee-rented		629.33	629.00	629.33					1,031.74					
	CAPTIVE POWER	600.00	629.33	629.00	629.33					1,031.74					
	CAPTIVE POWER - Zee-rented		629.33	629.00	629.33					1,031.74					
	CNG	700.00	629.33	629.00	629.33					1,031.74					
	LANG-CNG		629.33	629.00	629.33					1,031.74					
	COMMERCIAL	700.00	629.33	629.00	629.33					1,031.74					
	SPL COMMERCIAL		629.33	629.00	629.33					1,031.74					
	PUBSCIC	Up to 50 M3 per Month - All take off at flat rate of	100.00	629.33	629.00	629.33					1,031.74				
Up to 100 M3 per Month - All take off at flat rate of		100.00	629.33	629.00	629.33					1,031.74					
Up to 200 M3 per Month - All take off at flat rate of		100.00	629.33	629.00	629.33					1,031.74					
Up to 300 M3 per Month - All take off at flat rate of		100.00	629.33	629.00	629.33					1,031.74					
Up to 400 M3 per Month - All take off at flat rate of		100.00	629.33	629.00	629.33					1,031.74					
Up to 500 M3 per Month - All take off at flat rate of		100.00	629.33	629.00	629.33					1,031.74					
Over 500 M3 per Month - All take off at flat rate of		100.00	629.33	629.00	629.33					1,031.74					
Bank domestic		600.00	629.33	629.00	629.33					1,031.74					
Sales - 1 upto 100 CM		600.00	629.33	629.00	629.33					1,031.74					
Sales - 2 over 100 to 300 CM		600.00	629.33	629.00	629.33					1,031.74					
Sales - 3 All over 300 CM															
GRAND TOTAL					1,222	36,753	8,309	35,880,950	48,851	19,546	1	19,546	72,462	0	22,862 (0.219)

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SUN NORTHERN GAS PIPELINES LIMITED  
GAS SALES FOR THE FINANCIAL YEAR 2018-19

CATEGORY

CATEGORY	AVG. (KCV)	SALE PRICE/ MONTHLY	PRESUMED MONTHLY	SALE PRICE/ MONTHLY	PRESUMED MONTHLY	MONTHLY	MONTHLY	B BTD	SIX MONTHS END TO DECEMBER 2018		TOTAL PRCC. PRCT.	TOTAL PRCC. PRCT.	GMS	
									SALE PRICE/ MONTHLY	SALE PRICE/ MONTHLY				
<b>WARDA</b>														
MUZAFAR GARI	490.00	629.33	629.00	629.33	629.33	0	1	1,474	3,800	4,543	0.961	1,560	2,541	
MAGARI S.M.C.M.T.S.S-VATS-ELASHIS SUKRA	490.00	629.33	629.00	629.33	629.33	55	10,116	8,662,376	8,667	4,433,200	5,444,619	5,444,619	(1,019,419)	
FOOD POWER	490.00	629.33	629.00	629.33	629.33	33	10,116	8,668,849	8,669	4,439,744	5,485,621	1,500	3,437,181	
TOTAL WARDA														
<b>IPS</b>														
KAYCO														
KAJANG POWER														
KCPCL														
ENRANG WATAS														
ORIENT POWER KALOKI	490.00	629.33	629.00	629.33	629.33	52	9,652	8,384,700	6,345	3,454,198	4,141,949	4,141,949	(689,732)	
SAYURIE POWER														
SAR POWER														
HALIMONG														
ALTERN	490.00	629.33	629.00	629.33	629.33									
Bulaki														
Haveli Bahadar Shah														
WADAI														
DAVIS														
KPK POWER	490.00	629.33	629.00	629.33	629.33									
LIBERTY POWER														
TOTAL IPS	669.45	629.33	1,095.19	629.33	629.33	44	8,142	6,846,807	6,837	6,202,274	4,315,195	4,315,195	1,887,080	
<b>TOTAL POWER</b>						152	27,912	22,110,337	22,110	14,092,315	13,901	14,092,315	13,914,963	179,691
<b>FERKILZER</b>														
PAK-OSAD														
DAVID HERC.														
INGSO FORTLEGER	103.59	629.33	780.00	629.33	629.33	0	41	40,181	40	24,099	25,287	25,287	(1,188)	
HAZARA PDKS	600.00	629.33	780.00	629.33	629.33	96	17,745	13,614,616	13,615	3,674	3,674	3,674	(0,187)	
PAK-AMERICAN	600.00	629.33	780.00	629.33	629.33	39	3,591	2,761,806	2,762	1,932,890	1,930,338	1,930,338	230,863	
SUB TOTAL	600.00	629.33	780.00	629.33	629.33	0	6	6,083	7	4,010	4,206	4,206	(0,196)	
						1	98	106,098	100	17,307	63,172	63,172	(46,065)	
						117	25,511	16,493,315	16,493	3,275,852	3,276,835	3,276,835	13,841	
						34	6,276	6,479,119	6,476	3,994,146	4,075,932	4,075,932	1,918,201	
<b>GENERAL INDUSTRIAL</b>						66	12,081	12,310,808	12,317	8,244,810	7,804,654	7,804,654	490,216	
<b>Taxi- de Zoro rated</b>						35	3,564	3,841,763	3,842	3,805,918	3,676,372	3,676,372	(171,339)	
<b>CAPTURE POWER - Zero rated</b>						42	2,688	2,711,639	2,712	4,573,201	4,833,293	4,833,166	(317,963)	
<b>CNG</b>						79	14,567	13,458,213	13,526	13,186,148	9,537,012	9,537,012	3,649,132	
<b>LANG-ONG</b>						71	11,011	13,300,200	13,360	11,522,682	11,282,689	8,411,116	8,411,116	3,371,524
<b>Commercial</b>						0	0	0	0	0	0	0	0	
<b>SPL-COMMERCIAL</b>						0	0	0	0	0	0	0	0	
Up to 50 MG per Month - All take off at flat rate of	110.00	629.33	121.00	629.33	629.33	0	0	0	0	0	0	0	0	
Up to 100 MG per Month - All take off at flat rate of	110.00	629.33	127.00	629.33	629.33	0	0	0	0	0	0	0	0	
Up to 200 MG per Month - All take off at flat rate of	220.00	629.33	264.00	629.33	629.33	0	0	0	0	0	0	0	0	
Up to 300 MG per Month - All take off at flat rate of	330.00	629.33	396.00	629.33	629.33	0	0	0	0	0	0	0	0	
Up to 400 MG per Month - All take off at flat rate of	440.00	629.33	528.00	629.33	629.33	0	0	0	0	0	0	0	0	
Over 400 MG per Month - All take off at flat rate of	700.00	629.33	980.00	629.33	629.33	0	0	0	0	0	0	0	0	
<b>INDUSTRIAL</b>						47	8,654	8,943,026	8,943	1,061,898	5,628,139	5,628,139	(6,566,629)	
Up to 100 MG per Month - All take off at flat rate of	110.00	629.33	127.00	629.33	629.33	139	28,896	26,039,763	26,649	17,320,677	15,225,756	15,225,756	(11,595,069)	
Up to 200 MG per Month - All take off at flat rate of	220.00	629.33	264.00	629.33	629.33	135	24,913	25,717,871	25,718	6,553,486	16,183,028	16,183,028	(6,631,542)	
Up to 300 MG per Month - All take off at flat rate of	330.00	629.33	396.00	629.33	629.33	142	22,391	22,942,000	22,942	3,062,116	14,438,114	14,438,114	(9,375,998)	
Up to 400 MG per Month - All take off at flat rate of	440.00	629.33	528.00	629.33	629.33	28	5,206	5,285,000	5,286	3,997,071	3,389,445	3,389,445	697,626	
Over 500 MG per Month - All take off at flat rate of	700.00	629.33	980.00	629.33	629.33	3	3	3	3	3	3	3	3	
Over 500 MG per Month - All take off at flat rate of	800.00	629.33	1,040.00	629.33	629.33	4	4	4	4	4	4	4	4	
<b>Both domestic</b>						100.00	524	96,404	98,953	29,923,131	29,923,131	61,213,528	61,213,528	(33,280,190)
<b>Sub-1 - Up to 100 MG</b>	400.00	629.33	780.00	629.33	629.33	0	0	0	0	0	0	0	0	
<b>Sub-2 - Over 100 MG</b>	400.00	629.33	780.00	629.33	629.33	0	0	0	0	0	0	0	0	
<b>Sub-1 &amp; 2 - All take off at flat rate of</b>	400.00	629.33	780.00	629.33	629.33	0	0	0	0	0	0	0	0	
<b>GRAND TOTAL</b>	1,163	213,925	207,653,984	207,632	99,582	329,664	3	129,665	(30,113)					



SDI NORTHERN GAS PIPELINES LIMITED  
GAS SALES FOR THE FINANCIAL YEAR 2018-19

Table 19

AVG. CATEGORY	SALE QUANTITY (MMCB)	PREVIOUS MONTHLY (MMCB)	SALE PRICE (\$/MMCB)	PREVIOUS MONTHLY (\$/MMCB)	AVG. GCV	MAGDITI	IF FTU	SALE PRICE (FIXED) (\$/MMCB)	FIXED CHARGE (\$)	TOTAL SALES PRICE	PREV. PRICE	FIXED CHARGE (\$)	TOTAL PRICE	RSB
<b>WAPDA</b>														
MUZAFAR GARI	400.00	629.33	629.00	629.33										
MUGARI SPS-M2	400.00	629.33	629.00	629.33										
GIZEDI POWER	400.00	629.33	629.00	629.33										
RENTED POWER RICH & SDP	400.00	629.33	629.00	629.33										
TOTAL WAPDA	1,600.00	2,517.00	2,517.00	2,517.00										
<b>EPSC</b>														
KARCO														
ROUSCH POWER														
EMPC														
ENERGY POWER														
CARBIDE POWER (BALOKI)														
SAPRIE POWER														
SAV POWER														
HALIMBIE														
ALTEREK														
Hulkati														
Thandi Habodar Shah														
Brakko														
DAVIS														
KPK POWER														
LIBERTY POWER														
TOTAL EPSC	4,000.00	6,293.33	1,006.33	1,006.33										
<b>TOTAL POWER</b>	5,600.00	8,810.33	3,523.33	3,523.33										
<b>FERTILIZER</b>														
FAK ASAR														
FUEL														
DAUD IBERC														
FUEL														
ENERGY FERTILIZER														
FUEL														
HAZASSA PITS														
FAK AMBERIAN														
FUEL														
<b>SUB TOTAL</b>	10,000.00	16,103.33	4,529.66	4,529.66										
<b>CEMENT</b>														
<b>QUINEAL INDUSTRIAL</b>														
Territe at Zero rated														
<b>CAPTIVE POWER</b>														
<b>CAPTIVE POWER - Zero rated</b>														
<b>ONG</b>														
<b>LNG-CNG</b>														
<b>COMMERICAL</b>														
<b>SPL COMMERCIAL</b>														
Up to 50 M3 per Month - All take off at flat rate of														
Up to 100 M3 per Month - All take off at flat rate of														
Up to 200 M3 per Month - All take off at flat rate of														
Up to 300 M3 per Month - All take off at flat rate of														
Up to 400 M3 per Month - All take off at flat rate of														
Over 400 M3 per Month - All take off at flat rate of														
<b>DOMESTIC</b>														
Up to 50 M3 per Month - All take off at flat rate of														
Up to 100 M3 per Month - All take off at flat rate of														
Up to 200 M3 per Month - All take off at flat rate of														
Up to 300 M3 per Month - All take off at flat rate of														
Up to 400 M3 per Month - All take off at flat rate of														
Over 400 M3 per Month - All take off at flat rate of														
<b>Both domestic</b>														
Sub-1 upto 100 C.M														
Sub-2 upto 300 C.M														
Sub-3 upto 500 C.M														
<b>GRAND TOTAL</b>	15,500.00	23,613.33	6,056.33	6,056.33										







SUN NORTHERN GAS PIPELINES LIMITED  
GAS SALES FOR THE FINANCIAL YEAR 2018-19

CATEGORY	AVG. KCV	SALES (MWH)		PERCENTAGE		AMOUNT	KCV	MONTH	MONTHLY	R BTU	APR 19		FIXED CHARGE PER	TOTAL PRESC. PERCE.	GUR
		PRESC. (MWH)	SALES (MWH)	PRESC. (%)	SALES (MWH)						PRESC. (%)	FIXED CHARGE PER			
<b>WAPDA</b>															
MUZAFAR GARHI	400.00	629.33	629.33	629.33	629.33		1,042.39								
MEHAR SPS-MULTI SPS-GTPP-ESDGTGS SIDRA	400.00	629.33	629.33	629.33	629.33		1,042.39								
GUDDU POWER	400.00	629.33	629.33	629.33	629.33		1,042.39								
RENTED POWER BIKHJI & SKP	400.00	629.33	629.33	629.33	629.33		1,042.39								
<b>TOTAL WAPDA</b>															
<b>DEES</b>															
KOPCO		629.33	629.33	629.33	629.33		1,042.39								
ROUSCH POWER		629.33	629.33	629.33	629.33		1,042.39								
ENERGO POWER		629.33	629.33	629.33	629.33		1,042.39								
CHENGT POWER BALLEKI		629.33	629.33	629.33	629.33		1,042.39								
SATHEE POWER		629.33	629.33	629.33	629.33		1,042.39								
SAF POWER		629.33	629.33	629.33	629.33		1,042.39								
HALMORRE		629.33	629.33	629.33	629.33		1,042.39								
ALTERN		629.33	629.33	629.33	629.33		1,042.39								
Bahak		629.33	629.33	629.33	629.33		1,042.39								
Eleesh Yashwanth Shah		629.33	629.33	629.33	629.33		1,042.39								
Shahid		629.33	629.33	629.33	629.33		1,042.39								
DAVIS		629.33	629.33	629.33	629.33		1,042.39								
EPK POWER		629.33	629.33	629.33	629.33		1,042.39								
LIBERTY POWER		629.33	629.33	629.33	629.33		1,042.39								
6009-45		629.33	629.33	629.33	629.33		1,042.39								
<b>TOTAL DEES</b>															
<b>TOTAL POWER</b>															
<b>ENERGIZER</b>															
PAK ARAB		629.33	629.33	629.33	629.33		1,042.39								
FUEH		629.33	629.33	629.33	629.33		1,042.39								
DAVID HERC.		629.33	629.33	629.33	629.33		1,042.39								
FUEH		629.33	629.33	629.33	629.33		1,042.39								
ENERGO FERTILIZER		629.33	629.33	629.33	629.33		1,042.39								
FUEH		629.33	629.33	629.33	629.33		1,042.39								
LAZARA PULIK		629.33	629.33	629.33	629.33		1,042.39								
FUEH		629.33	629.33	629.33	629.33		1,042.39								
PAK ANDREYAN		629.33	629.33	629.33	629.33		1,042.39								
FUEH		629.33	629.33	629.33	629.33		1,042.39								
<b>SUB TOTAL</b>															
<b>GENERAL</b>															
CEMENT		629.33	629.33	629.33	629.33		1,042.39								
600.00		629.33	629.33	629.33	629.33		1,042.39								
GENERAL INDUSTRIAL		629.33	629.33	629.33	629.33		1,042.39								
600.00		629.33	629.33	629.33	629.33		1,042.39								
<b>Totally 66 zero-rated</b>															
<b>CAPTIVE POWER</b>															
400.00		629.33	629.33	629.33	629.33		1,042.39								
<b>CAPTIVE POWER - zero-rated</b>															
600.00		629.33	629.33	629.33	629.33		1,042.39								
<b>CNG</b>															
700.00		629.33	629.33	629.33	629.33		1,042.39								
<b>LNG-CNG</b>															
<b>COMMERCIAL</b>															
700.00		629.33	629.33	629.33	629.33		1,042.39								
<b>SPL. COMMERCIAL</b>															
100.00		629.33	629.33	629.33	629.33		1,042.39								
Up to 50 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 100 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 200 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 300 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 400 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 500 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Over 500 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
<b>DOMESTIC</b>															
100.00		629.33	629.33	629.33	629.33		1,042.39								
Up to 50 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 100 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 200 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 300 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 400 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Up to 500 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
Over 500 MG per Month - All take off at flat rate of		629.33	629.33	629.33	629.33		1,042.39								
<b>Build domestic</b>															
600.00		629.33	629.33	629.33	629.33		1,042.39								
400.00		629.33	629.33	629.33	629.33		1,042.39								
800.00		629.33	629.33	629.33	629.33		1,042.39								
<b>GRAND TOTAL</b>															

SUD NORTHERN GAS PIPELINES LIMITED  
GAS SALES FOR THE FINANCIAL YEAR 2016/17

CATEGORY	AVG (KTY)	SALE PRICE/MBTU	PRESCRIBED PRICE/MBTU	SALE PRICE/MBTU	PRESCRIBED PRICE/MBTU	MONTHS	MBCP	GCV	MBTU	R/GW	MID		FIXED THROUGH IS	TOTAL PRESC. PRICE	TOTAL PRESC. PRICE	GLS
											FIXED CHARGES	SALE PRICE				
<b>WAZIR</b>																
MUZAFAR GARH	800.00	629.33	629.33	629.33	629.33											
MUGHALI SPS-MLT SPS-GTFS-FSD-GTFS SIBWA	800.00	629.33	629.33	629.33	629.33											
GILGUD POWER	800.00	629.33	629.33	629.33	629.33											
MINSTRO POWER HUBCH & SGP	800.00	629.33	629.33	629.33	629.33											
TOTAL WAZIR																
<b>IPPS</b>																
ATICO																
SHARLI POWER																
ENSCHE POWER																
ORIENT POWER RALEKJI																
SAVIBRE POWER																
SAF POWER																
BALAGORE																
ALTEGEN																
Haveli Bahadur Shah																
BALAK																
SHIKKI																
DAVIS																
KFK POWER																
LIBERTY POWER																
TOTAL IPPS																
<b>TOTAL POWER FERTILIZER</b>																
PAK-ADAB																
FEED																
PUEL																
FEED																
DAUD HIRAC																
FEED																
ENGRO FERTILIZER																
FEED																
PUEL																
HAZAZA FEED																
FEED																
PAK-AMERICAN																
FEED																
FEED																
SEB-TOTAL																
<b>GENERAL</b>																
INDUSTRIAL																
Tire-tac Zero rated																
<b>CAPTIVE POWER</b>																
Zero rated																
<b>CNG</b>																
PAKTYK POWER - Zero rated																
<b>LNG-CNG</b>																
<b>COMMERCIAL</b>																
<b>SEL COMMERCIAL</b>																
Up to 50 MG per Month - All take off at flat rate of																
Up to 100 MG per Month - All take off at flat rate of																
Up to 200 MG per Month - All take off at flat rate of																
Up to 300 MG per Month - All take off at flat rate of																
Up to 400 MG per Month - All take off at flat rate of																
Over 400 MG per Month - All take off at flat rate of																
<b>DOMESTIC</b>																
Up to 50 MG per Month - All take off at flat rate of																
Up to 100 MG per Month - All take off at flat rate of																
Up to 200 MG per Month - All take off at flat rate of																
Up to 300 MG per Month - All take off at flat rate of																
Up to 400 MG per Month - All take off at flat rate of																
Up to 500 MG per Month - All take off at flat rate of																
Over 500 MG per Month - All take off at flat rate of																
<b>Bulk domestic</b>																
Sub - 1000 CUM																
Sub - 1000 to 300 CUM																
Sub - 1000 to 300 CUM																
<b>GRAND TOTAL</b>																

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SUN NORTHERN GAS PIPELINES LIMITED  
GAS SALES FOR THE FINANCIAL YEAR 2018-19

CATEGORY	AVG. GCV	SALE PRICE MOBERTH	PRESUMED MONTHLY MOBERTH	SALE PRICE MOBERTH	PRESUMED MONTHLY MOBERTH	MOBERTH	MOBERTH	TOTAL MONTHLY SALES (IN INR)				TOTAL PRESUMED CHARGES	TOTAL PRESUMED PRICE	GMS	
								SALE PRICE	MOBERTH	MOBERTH	MOBERTH				
<b>WAPDA</b>															
MUZAFAR GARHI	48000	629.33	629.33	629.33	629.33	-	-	-	-	-	-	-	-	-	-
MAGARH SPS-MET.SPS-GTPS-RSD.GTPS SIDRA	48000	629.33	629.33	629.33	629.33	-	-	-	-	-	-	-	-	-	-
GIDDUVA POWER	48000	629.33	629.33	629.33	629.33	50	4,450	4,071,930	4,008	2,531,001	3,925	1,176	1,176	1,755	(1,333)
RENTED POWER BIKHRA SKEP	48000	629.33	629.33	629.33	629.33	-	-	-	-	-	-	-	-	-	-
<b>TOTAL WAPDA</b>						50	4,450	4,071,930	4,008	2,531,001	3,925	1,176	1,176	1,755	(1,333)
<b>EPS</b>															
KATCO															
KANUSCH POWER															
ENKONG POWER															
ORIENT POWER BALOKI															
SAPRIHA POWERIK															
SAP POWER															
HALHONG															
ALTERN															
Kotahi															
Haveli Bahadar Shah															
Rakhi															
DAVIS															
KPK POWER															
LIBERTY POWER															
<b>TOTAL EPS</b>						45	4,095	3,459,505	3,460	3,477,469	-	2,177,171	-	2,177,171	1,300,390
<b>TOTAL POWER</b>						100	8,545	7,531,435	7,468	6,008,470	3,925	3,353	3,353	3,925	2,605
<b>FEED</b>															
PAK ARAB															
DAVID HERC															
ENGRO FERTILIZER															
ISKARA PHOS															
PAK AMERICAN															
<b>SUB TOTAL</b>						130	13,640	10,990,940	10,468	9,485,939	7,850	5,549	5,549	7,850	4,910
<b>GENERAL</b>															
INDUSTRIAL															
Treatise de Zero rated															
<b>CAPTIVE POWER</b>															
CAPTIVE POWER - Zero rated															
<b>ONG</b>															
LANG-ONG															
<b>COMMERCIAL</b>															
<b>SPR - COMMERCIAL</b>															
Up to 50 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	71	6,424	6,672,869	6,693	809,837	-	4,312,025	-	4,312,025	6,402,160
Up to 100 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	137	12,446	12,796,909	12,797	1,625,207	-	1,825,307	-	1,825,307	8,053,479
Up to 200 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	315	28,334	19,111,018	19,111	3,045,316	-	3,045,316	-	3,045,316	12,027,150
Up to 300 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	42	3,803	3,963,729	3,964	3,091,748	-	2,702,582	-	2,702,582	5,040,549
Up to 400 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	53	4,702	4,782,000	4,782	3,091,748	-	2,494,525	-	2,494,525	5,997,235
Over 400 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	36	3,202	3,242,536	3,243	3,540,874	-	3,091,748	-	3,091,748	1,331,067
<b>INDUSTRIAL</b>															
Up to 50 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	100	9,000	9,000,000	9,000	1,000,000	-	1,000,000	-	1,000,000	1,000,000
Up to 100 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	200	18,000	18,000,000	18,000	2,000,000	-	2,000,000	-	2,000,000	2,000,000
Up to 200 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	400	36,000	36,000,000	36,000	4,000,000	-	4,000,000	-	4,000,000	4,000,000
Up to 300 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	600	54,000	54,000,000	54,000	6,000,000	-	6,000,000	-	6,000,000	6,000,000
Up to 400 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	800	72,000	72,000,000	72,000	8,000,000	-	8,000,000	-	8,000,000	8,000,000
Over 400 MG per Month - All take off at the rate of	11000	629.33	629.33	629.33	629.33	1000	90,000	90,000,000	90,000	10,000,000	-	10,000,000	-	10,000,000	10,000,000
<b>Bank domestic</b>															
Sub-2 - 1 up to 100 C.M															
Sub-2 - 2 up to 200 C.M															
Sub-3 - All up to 300 C.M															
<b>GRAND TOTAL</b>						1,220	111,205	109,185,055	109,183	59,475	3	59,475	68,712	68,713	19,159

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NET SOUTHERN GAS PIPELINES LIMITED  
GAS SALES FOR THE FINANCIAL YEAR 2019/20

CATEGORY	AVG. GCV	SALE PROCEEDS MONTHLY TO	HSR/CMR ED PROCS MONTHLY TO	SALE PRICE MONTHLY TO	PREK/REP ED PRICE MONTHLY TO	MONTHLY	MONTHLY	MONTHLY	SIX MONTHS JANUARY TO JUNE 2019			CHARGES	FIXED	TOTAL	PRESC. PRICE	CHARGES	TOTAL PRESC. PRICE	GAS
									MARKED	NOB/CP	MONTHLY							
<b>WAJDA</b>																		
MIZAFAR GARI	40000	620/33	620/00	620/00	620/33													
MAGARI SPS-SALT SPS-CTPS-FSD/GTFS SIEDRA	40000	620/33	620/00	620/00	620/33													
RENTED POWER BIRMI & SEP	40000	620/33	620/00	620/00	620/33													
TOTAL WAJDA																		
<b>IEPS</b>																		
KAPCO		620/33	620/00	620/00	620/33													
ROUSHI POWER		620/33	620/00	620/00	620/33													
FOUCH		620/33	620/00	620/00	620/33													
FOUCH POWER		620/33	620/00	620/00	620/33													
FORBIST POWER BALOKI	40000	620/33	620/00	620/00	620/33													
SURABLE POWER		620/33	620/00	620/00	620/33													
SAF POWER		620/33	620/00	620/00	620/33													
BALMORE		620/33	620/00	620/00	620/33													
ALTEEN		620/33	620/00	620/00	620/33													
Balshi		620/33	620/00	620/00	620/33													
Balshi Halage Shik		620/33	620/00	620/00	620/33													
Balshi		620/33	620/00	620/00	620/33													
DAVIS		620/33	620/00	620/00	620/33													
JKK POWER	40000	620/33	620/00	620/00	620/33													
LIBERTY POWER		620/33	620/00	620/00	620/33													
TOTAL IEPS	60000	620/33	620/00	620/00	620/33													
<b>TOTAL POWER</b>																		
<b>URTUZZER</b>																		
PAK ARAB		620/33	620/00	620/00	620/33													
FUEL		620/33	620/00	620/00	620/33													
DAVID HERC.		620/33	620/00	620/00	620/33													
FUEL		620/33	620/00	620/00	620/33													
ENBES-FERTILIZER	10000	620/33	620/00	620/00	620/33													
FUEL		620/33	620/00	620/00	620/33													
HAZARA FINS	60000	620/33	620/00	620/00	620/33													
FUEL		620/33	620/00	620/00	620/33													
PAK AMERICAN	13000	620/33	620/00	620/00	620/33													
FUEL		620/33	620/00	620/00	620/33													
<b>SHIP TOTAL</b>	60000	620/33	620/00	620/00	620/33													
<b>CEMENT</b>	70000	620/33	620/00	620/00	620/33													
<b>GENERAL INDUSTRIAL</b>	60000	620/33	620/00	620/00	620/33													
Tarifite et Zero rated																		
<b>CAPTIVE POWER</b>	60000	620/33	620/00	620/00	620/33													
CAPTIVE POWER - Zero rated																		
<b>CNG</b>	70000	620/33	620/00	620/00	620/33													
<b>LNG-CNG</b>																		
<b>COMMERCIAL</b>	10000	620/33	620/00	620/00	620/33													
<b>SPL - COMMERCIAL</b>																		
Up to 50 MG per Month - All take off at the rate of	11000	620/33	620/00	620/00	620/33													
Up to 100 MG per Month - All take off at the rate of	11000	620/33	620/00	620/00	620/33													
Up to 200 MG per Month - All take off at the rate of	22000	620/33	620/00	620/00	620/33													
Up to 300 MG per Month - All take off at the rate of	22000	620/33	620/00	620/00	620/33													
Up to 400 MG per Month - All take off at the rate of	60000	620/33	620/00	620/00	620/33													
Over 400 MG per Month - All take off at the rate of	60000	620/33	620/00	620/00	620/33													
<b>DOMESTIC</b>																		
Up to 50 MG per Month - All take off at the rate of	11000	620/33	620/00	620/00	620/33													
Up to 100 MG per Month - All take off at the rate of	11000	620/33	620/00	620/00	620/33													
Up to 200 MG per Month - All take off at the rate of	22000	620/33	620/00	620/00	620/33													
Up to 300 MG per Month - All take off at the rate of	22000	620/33	620/00	620/00	620/33													
Up to 400 MG per Month - All take off at the rate of	60000	620/33	620/00	620/00	620/33													
Over 400 MG per Month - All take off at the rate of	60000	620/33	620/00	620/00	620/33													
<b>Sub-dominant</b>																		
Sub-1 Up to 100 C/M	60000	620/33	620/00	620/00	620/33													
Sub-2 over 100 to 300 C/M	60000	620/33	620/00	620/00	620/33													
Sub-3 All over 300 C/M	100000	620/33	620/00	620/00	620/33													
<b>GRAND TOTAL</b>	1,222,000	620/33	620,000	620,000	620,330													





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SUI SOUTHERN GAS COMPANY LIMITED

Table # C-7

BASIS / ASSUMPTIONS

For FY 2018-19

( i ) Actual FOB rates up to 03 October 2018 have been taken with out any escalation / adjustment.

( ii ) Exchange rates have been considered average exchange rates Rs.140 and Rs.150 per US\$ for first half (July - December 2018) and second half (January - June 2019) respectively.

	PETITION		Averages
	Jul. - Dec.18	Jan. - Jun.19	
<b>Exchange Parity Rs per US\$</b>	140.00	150.00	145.00
<b>Crude oil US\$ per Barrel</b>			
Average FOB Prices	67.5521	75.9315	71.7418
Frieght	0.5187	0.5187	0.5187
Average C&F Prices	68.0708	76.4502	72.2605
MMBTU/BBL	5.6303	6.6303	
<b>HSFO US\$ per M.Ton.</b>			
Average FOB Prices	378.9531	444.4122	411.6827
Frieght	4.1528	4.1528	4.1528
Average C&F Prices	383.1059	448.5650	415.8355
MMBTU per M.Ton.	40.7920	40.7920	

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SUI NORTHERN GAS PIPELINE LIMITED  
STATEMENT OF GAS PURCHASES FOR THE FY 2018-19

Table with columns: GAS FIELD, No. of Days, New (Indicative price Jul-Dec 18, Indicative price Jan-Jun 19), Old (Indicative price Jul-Dec 18, Indicative price Jan-Jun 19), and TOTAL (MMMBTUs, MMCF, \$MMBtu, \$MMCF, \$MMBTU, \$MMCF). Rows include various gas fields like Sui, Dhadak, Sindh/Dubai, etc., and a summary section for Gas Purchases without Equalization cost.

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**SUI NORTHERN GAS PIPELINES LIMITED**

**GAS INTERNALLY CONSUMED FOR THE F.Y 2018-19**

Particulars	MMCF	GCV	MMBTU	Avg. cost price	M/Rs.
<b>Transmission System</b>					
Compressors	2,883	951	2,742,159	470	1,288.486
Coating Plant	154	951	146,482	470	68.829
Residential Colonies	71	951	67,534	470	31.733
Sub total	3,108		2,956,174		1,389.048
<b>Distribution System</b>					
Free Gas Facility	528	951	502,223	470	235.985
Co-Generation	85	951	80,850	470	37.990
Sub total	613		583,074		273.975
<b>GIC Indigenous</b>	3,721		3,539,248		1,663.023
				GIC	1,594.194
				CWP	29.33
				<b>Net</b>	<b>1,564.86</b>

**SUI NORTHERN GAS PIPELINES LIMITED**  
**SCHEDULE OF OPERATING FIXED ASSETS (TOTAL) FOR THE YEAR ENDED 30TH JUNE-2019**  
 Based on opening balances as per RERR, FY 2017-18

Description	Cost										Accumulated Depreciation			Book Value of Assets as on 30-06-2019	Depreciation Rate % age
	Balance as on 01-07-2018	ADDITION	ADDITION (C/F)	Motion for Review 17-18 / Principally Approved	RERR	Total Additions	Balance as on 30-06-2019	Balance as on 01-07-2018	On Opening Balance	On Addition during the year	Balance as on 30-06-2019				
LAND FREEHOLD	1,890	4	-	-	-	4	1,894	-	-	-	-	1,894	0	0	
LAND LEASEHOLD	0	-	-	-	-	-	0	-	-	-	-	0	0	0	
BUILDING ON FREEHOLD LAND	2,305	185	-	-	321	506	2,811	1,299	138	15	1,432	1,359	6	6	
BUILDING ON LEASEHOLD LAND	8	-	-	-	-	-	8	-	-	-	8	-	-	6	
TRANSMISSION MAINS	114,384	4,326	-	-	8,007	12,333	126,718	47,257	6,863	370	54,490	72,228	6	6	
DISTRIBUTION MAINS	101,799	17,414	-	26,762	507	64,683	146,482	43,222	6,108	1,341	50,670	95,812	6	6	
COMPRESSORS STATION EQUIP.	15,477	423	-	-	-	423	15,900	7,902	929	13	8,844	7,057	6	6	
TELECOMMUNICATION EQUIPMENT	2,362	42	-	-	-	42	2,404	2,030	142	1	2,173	231	6	6	
PLANT AND MACHINERY	4,345	405	-	161	205	771	5,116	2,562	869	77	3,508	1,608	20	20	
MEASURING AND REGULATING TOOLS AND EQUIPMENT	50,955	7,438	-	9,683	6,246	23,367	74,322	24,491	5,095	1,168	30,755	43,567	70	70	
MOTOR VEHICLES	451	27	-	-	20	47	497	351	98	8	459	39	33	33	
CONSTRUCTION EQUIPMENT	2,894	193	-	-	316	509	3,403	2,460	373	64	2,896	508	25	25	
FURNITURE & FIXTURES	8,432	238	-	-	5	243	8,675	6,155	989	24	7,168	1,506	20	20	
OFFICE EQUIPMENTS	694	75	-	-	138	213	907	430	104	16	550	357	7.5	7.5	
COMPUTER HARDWARE	174	28	-	-	12	40	214	137	35	4	176	38	20	20	
COMPUTER SYSTEM SOFTWARE	1,900	346	-	-	271	617	2,517	1,375	426	90	1,891	626	15-33	15-33	
SCADA SYSTEMS	-	-	-	-	-	-	-	-	316	-	-	990	-	33	
SCADA SYSTEMS	2,107	-	-	-	-	-	2,107	673	-	-	-	1,118	-	15	
<b>TOTAL</b>	<b>310,178</b>	<b>31,144</b>	<b>-</b>	<b>36,606</b>	<b>16,049</b>	<b>83,800</b>	<b>393,978</b>	<b>140,353</b>	<b>22,485</b>	<b>3,191</b>	<b>166,029</b>	<b>227,949</b>	<b>-</b>	<b>-</b>	

Intangible Assets	679	32	-	-	-	-	711	636	36	5	678	33	-	-
Advances for Land	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal Assets	450	-	-	-	-	-	450	-	-	-	-	450	-	-

Opening Assets	170,318
Closing Assets	228,431
Depreciation	25,718

00000036

**SUI NORTHERN GAS PIPELINES LIMITED**  
**SCHEDULE OF OPERATING FIXED ASSETS (NORMAL) FOR THE YEAR ENDED 30TH JUNE 2019**  
 Based on opening balances as per per. RERR, FY 2017-18

Description	Cost				Accumulated Depreciation				Book Value of Assets as on 30-06-2019	Depreciation Rate % age		
	Balance as on 01-07-2018	ADDITION	ADDITION (C/F)	Medium for Review 17-18 / Principally Approved.	HERR Assets	Total Additions	Balance as on 30-06-2019	Balance as on 01-07-2018			On Opening Balance	On Addition during the year
LAND FREEHOLD	1,829	4	-	-	-	4	1,833	-	-	-	1,833	0
LAND LEASEHOLD	0	-	-	-	-	-	0	-	-	-	0	0
BUILDING ON FREEHOLD LAND	2,305	185	-	-	321	506	2,811	1,289	138	15	1,452	6
BUILDING ON LEASEHOLD LAND	8	-	-	-	-	-	8	8	-	-	8	6
TRANSMISSION MAINS	65,440	4,326	-	-	8,007	12,333	77,773	43,743	3,226	370	48,640	6
DISTRIBUTION MAINS	101,799	17,414	-	26,762	507	44,683	146,482	43,222	6,108	1,341	50,670	6
COMPRESSORS STATION EQUIP	11,798	423	-	-	-	423	12,221	7,543	708	13	8,264	6
TELECOMMUNICATION EQUIPMENT	2,351	42	-	-	-	42	2,393	2,028	141	1	2,170	6
PLANT AND MACHINERY	3,210	405	-	161	205	771	3,981	2,295	642	77	3,114	20
MEASURING AND REGULATING	50,955	7,438	-	9,683	5,778	22,899	73,854	24,491	5,095	1,145	30,732	10
TOOLS AND EQUIPMENT	441	27	-	-	20	47	488	345	96	8	449	33
MOTOR VEHICLES	2,149	193	-	-	316	509	2,658	1,962	186	64	2,212	25
CONSTRUCTION EQUIPMENT	4,209	238	-	-	5	243	4,452	4,064	145	24	4,233	20
FURNITURE & FIXTURES	471	75	-	-	138	213	684	323	71	16	410	15
OFFICE EQUIPMENTS	167	28	-	-	12	40	207	134	33	4	171	20
COMPUTER HARDWARE	1,888	346	-	-	271	617	2,505	1,368	422	90	1,880	15-33
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	-	-	-	-	-	-	33
SCADA SYSTEMS	2,107	-	-	-	-	-	2,107	673	316	-	990	15
<b>TOTAL</b>	<b>291,129</b>	<b>31,144</b>	<b>-</b>	<b>36,606</b>	<b>15,581</b>	<b>83,332</b>	<b>334,460</b>	<b>133,599</b>	<b>18,028</b>	<b>3,168</b>	<b>154,795</b>	<b>-</b>
Intangible Assets	679	32	-	-	-	-	711	636	36	5	678	33
Advances for Land	-	-	-	-	-	-	-	-	-	-	-	-
-Normal Assets	386	-	-	-	-	-	386	-	-	-	-	386

Opening Assets	117,958
Closing Assets	180,084
Depreciation	21,238

0000037



**SUI NORTHERN GAS PIPELINES LIMITED**  
**SCHEDULE OF OPERATING FIXED ASSETS (RING) FOR THE YEAR ENDED 30TH JUNE-2019**  
 Based on opening balances as per petition for RFR, FY 2017-18

Description	Cost				Accumulated Depreciation			Rupees in million			
	Balance as on 01-07-2018	ADDITION (C/E)	Principally Approved	RFR Assets	Total Additions	Balance as on 30-06-2019	On Opening Balance	On Addition during the year	Balance as on 30-06-2019	Book Value of Assets as on 30-06-2019	Depreciation Rate % age
LAND FREEHOLD	60	-	-	-	-	60	-	-	-	60	-
LAND LEASEHOLD	-	-	-	-	-	-	-	-	-	-	-
BUILDING ON FREEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
BUILDING ON LEASEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
TRANSMISSION MAINS	48,945	-	-	-	-	48,945	2,937	-	6,450	42,494	6
DISTRIBUTION MAINS	-	-	-	-	-	-	-	-	-	-	6
COMPRESSORS STATION EQUIP	3,679	-	-	-	-	3,679	221	-	579	3,100	6
TELECOMMUNICATION EQUIPMENT	11	-	-	-	-	11	1	-	3	9	6
PLANT AND MACHINERY	1,134	-	-	-	-	1,134	227	-	394	740	20
MEASURING AND REGULATING TOOLS AND EQUIPMENT	-	-	-	468	468	468	-	23	23	445	10
MOTOR VEHICLES	745	-	-	-	-	745	186	-	683	62	25
CONSTRUCTION EQUIPMENT	4,223	-	-	-	-	4,223	845	-	2,935	1,288	20
FURNITURE & FIXTURES	223	-	-	-	-	223	13	-	140	83	15
OFFICE EQUIPMENTS	7	-	-	-	-	7	1	-	4	2	20
COMPUTER HARDWARE	11	-	-	-	-	11	4	-	11	1	33
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	-	-	-	-	-	33
SCADA SYSTEMS	-	-	-	-	-	-	-	-	-	-	15
<b>TOTAL</b>	<b>59,050</b>	<b>-</b>	<b>-</b>	<b>468</b>	<b>468</b>	<b>59,518</b>	<b>4,457</b>	<b>23</b>	<b>11,234</b>	<b>48,283</b>	<b>-</b>

Advances for Land	64	-	-	-	-	64	-	-	-	64	-
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Opening Assets	52,360
Closing Assets	48,348
Depreciation	4,480

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**SUI NORTHERN GAS PIPELINES LIMITED**  
**SCHEDULE OF OPERATING FIXED ASSETS (LPG Air Mts) FOR THE YEAR ENDED 30TH JUNE-2019**  
 Based on opening balances as per per RERR, FY 2017-18

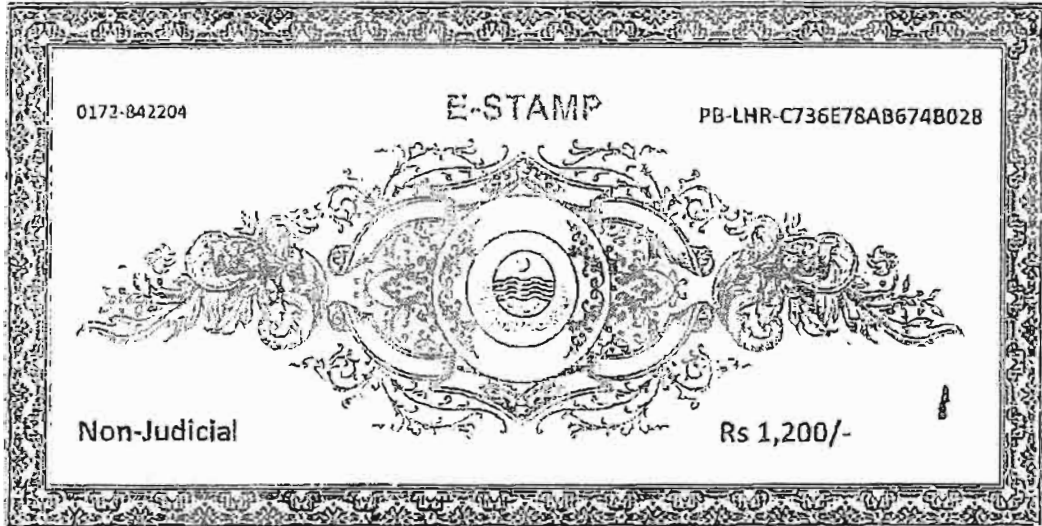
Rupees in million

Description	Cost				Accumulated Depreciation			Book Value of Assets as on 30-06-2019	Depreciation Rate % age
	Balance as on 01-07-2018	ADDITION (C/F)	Motion for Review 17-18 / Periodically Approved	Total Additions	Balance as on 30-06-2019	On Opening Balance	On Addition during the year		
LAND FREEHOLD		4						4	0
LAND LEASEHOLD									0
BUILDING ON FREEHOLD LAND									6
BUILDING ON LEASEHOLD LAND									6
TRANSMISSION MAINS									6
DISTRIBUTION MAINS		800			800		24	776	6
COMPRESSORS STATION EQUIP									6
TELECOMMUNICATION EQUIPMENT									6
PLANT AND MACHINERY		444			444		44	400	20
MEASURING AND REGULATING TOOLS AND EQUIPMENT									10
MOTOR VEHICLES		14			14		2	12	25
CONSTRUCTION EQUIPMENT									20
FURNITURE & FIXTURES									15
OFFICE EQUIPMENTS									20
COMPUTER HARDWARE									15-33
COMPUTER SYSTEM SOFTWARE									33
SCADA SYSTEMS									15
<b>TOTAL</b>		<b>1,262</b>			<b>1,262</b>		<b>70</b>	<b>1,192</b>	
Intangible Assets									
Advances for Land									
Normal Assets									

Opening Assets	-
Closing Assets	1,192
Depreciation	70

Asset Reconciliation

Description	AIN/Out 2008	Supplier Code	AMM Invoice #	New Equipment	Director's Office	Computer Hardware	Upgrades of AMM	CC Transmitters	ID Readers	CC Transmitters in Use	CSC - District Pd	CSC - Main Pd	New Machines (Phase II)	New Machines (Phase II)	Segregation of Trans. Network	Low risk PWT and LOD	AVES of Car Network	Total
<b>Land received</b>																		
Payroll on fixed land									238									311
Building on lease hold land							1,140											1,140
Transmission mains	977		654							0.120	1	1.27			649	1,031	3,074	9,107
Apparatus mains										0.100	1	2.45						807
Telephone equipment										0.160								204
Telecommunication equipment										0.940								5,728
Plant and machinery			90	4,666	999					0.150	3	2,875	70	21	65			20
Measuring and signalling																		316
Tools and equipment																		5
Motor vehicles																		138
Signage equipment																		12
Furniture and fixtures																		271
AMFC equipment																		12
Computer hardware						195												195
Computer software system																		195
Sub total	977		654	90	4,666	999	1,140	1,67	2,182.0	1.67	6.51	7	202.69	166.53	859	1,931	3,424	15,591



Description	: POWER OF ATTORNEY - 48(bb)(a)
First Party / Principal	: SOI NORTHERN GAS PIPE LINES LTD (36302-0131766-5)
Second Party / Attorney Holder	: CH LIAQAT ALI [34101-2616650-9]
Agent	: M RAFIQUE GUJAR (35202-2494274-7)
Stamp Duty Paid by	: CH LIAQAT ALI [34101-2616650-9]
Issue Date	: 22-Feb-2017, 01:02:32 PM
Paid Through Challan	: 2017AB16E4C9905E
Amount in Words	: One Thousand Two Hundred Rupees Only

Please Write Below This Line

**GENERAL POWER OF ATTORNEY**

By this Deed of Attorney given on 27<sup>th</sup> day of APRIL 2017, SUI NORTHERN GAS PIPELINES LIMITED, incorporated under the Companies Act, 1913 (now the Companies Ordinance, 1984) and having its registered office at Gas House, 21-Kashmir Road, Lahore (hereinafter called "THE COMPANY") through its Managing Director do hereby appoint Ch. Liaqat Ali, Chief Officer, (Regulatory Affairs) Sui Northern Gas Pipelines Limited (hereinafter called "THE ATTORNEY") its true and lawful Attorney to represent the Company and on behalf of the Company to do or execute all or any of the acts and things hereinafter mentioned that is to say:

1. To represent the Company in all proceedings before the Oil and Gas Regulatory Authority ("OGRA") and / or other regulatory authorities including Director General (Gas), Ministry of Petroleum & Natural Resources, Government of Pakistan.
2. To file and appear in proceedings, sign application, petitions and other documents that may be required to defend the Company petitions(s) for its revenue requirement, tariff, licensing and any other ancillary matters.
3. To sign and file interventions, requests, comments, affidavits, furnish undertakings and /or any other documents that may be required in any matter before OGRA.
4. To appoint Advocates and give them due authority to act and conduct the cases and appear in all proceedings to defend the Company before OGRA and / or any other regulatory authority including Director General (Gas), Ministry of Petroleum & Natural Resources, Government of Pakistan.

\_\_\_\_\_  
MANAGING DIRECTOR  
CNIC No.

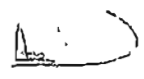
\_\_\_\_\_  
DIRECTOR  
CNIC No.



All legal acts done by the said attorneys in furtherance of the Company proceedings before OGRA, before execution of this power of Attorney, are hereby ratified and deemed to have been done under lawful authority.

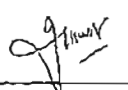
IN WITNESS WHEREOF the common Seal of the Company was hereunto affixed on the 27<sup>th</sup> day of APRIL 2017 at Lahore.


The common seal of  
Sui Northern Gas Pipelines Limited  
was hereunto affixed in the  
Presence of:

  
MANAGING DIRECTOR  
CNIC No.

  
DIRECTOR  
CNIC No.

WITNESSES:

  
M. Iqbal Afzal  
Exec. Law Officer  
Sui Northern Gas Pipelines Limited  
21-Kashmir Road, Lahore.  
CNIC No. 31303-5170971-9

  
Muhammad Tahir Rashid  
Law Officer  
Sui Northern Gas Pipelines Limited  
21-Kashmir Road, Lahore  
CNIC No. 35202-2793098-3

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# SUI NORTHERN GAS PIPELINES LIMITED

GAS HOUSE, 21 KASHMIR ROAD, P.O. BOX 56, LAHORE (PAKISTAN)

148  
Annex-B

Reference: RA-TAR-18-19(P)-049

Date: November 06, 2018

**Registrar**  
Oil and Gas Regulatory Authority  
Fazel I Haq Road, Blue Area  
Islamabad.

**Subject: APPROVAL UNDER RULE 20 (XVIII) OF NGRA LICENSING RULES (2002) FOR LOW GAS PRESSURE IN BAHAWALPUR AND LODHRAN SYSTEM AUGMENTATION**

Dear Sir,

Please refer to the clause 20 (XVIII) of Natural Gas Regulatory Authority (Licensing Rules) 2002.

Gas supplies to residents of Bahawalpur City, Lodhran city and adjoining localities are facing acute low pressure / no pressure issues during winter seasons due to system capacity constraints resulting in several protests from local residents creating law and order situation. Short supply / low pressure / no pressure problems of subject localities have been planned to be addressed by replacing existing 8" dia pipeline with 16" dia x 49 KM pipeline from A5 (valve assembly at Khairpur daha) to Bahawalpur with upgradation of SMS Bahawalpur to 100 MMCFD.

Accordingly the Company has prepared a plan to lay above mentioned infrastructure at a total budgeted cost of Rs. 1,931 million, which has been approved by Board of Directors (BOD) in its 513<sup>th</sup> meeting held on October 31, 2018. The detailed agenda of the project along with Board's approval is enclosed as *Annex-A*.

Keeping in view the importance of the project, the Authority is requested to grant approval under clause 20 (XVIII) of the Natural Gas Regulatory Authority (Licensing Rules), 2002.

With best Regards.

Yours faithfully,  
Sui Northern Gas Pipelines Ltd

  
(LIAQAT ALI)  
Chief Officer (RA)  
for Managing Director

Encl: As above

Telephones Exch: { +92-4299082000  
+92-4299082006

Telephones: 042 - 99201483

Fax: 042-99204424

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OHSA 18001 ISO 14001

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# SUI NORTHERN GAS PIPELINES LIMITED

GAS HOUSE, 21 KASHMIR ROAD, P.O. BOX 56, LAHORE (PAKISTAN)

149

Reference: RA-TAR-18-19(P)-049

Date: November 06, 2018

**Registrar**  
Oil and Gas Regulatory Authority  
Fazel I Haq Road, Blue Area  
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**Subject: APPROVAL UNDER RULE 20 (XVIII) OF NGRA LICENSING RULES (2002) FOR LOW GAS PRESSURE IN BAHAWALPUR AND LODHRAN SYSTEM AUGMENTATION**

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Keeping in view the importance of the project, the Authority is requested to grant approval under clause 20 (XVIII) of the Natural Gas Regulatory Authority (Licensing Rules), 2002.

With best Regards.

Yours faithfully,  
Sui Northern Gas Pipelines Ltd

  
(LIAQAT ALI)  
Chief Officer (RA)  
jinn Managing Director  
gta

Encl: As above

N.O.O.

cc: GM (P&D) – This refers to memo No. P&D/02-12329 dated 05.11.2018

Telephones Exch: { +92-42/99082000  
+92-42/99082006

Telephones: 042 – 99201483

Fax: 042-99204424

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**EXTRACT FROM THE DRAFT MINUTES OF THE 513<sup>TH</sup> MEETING  
OF THE BOARD OF DIRECTORS HELD ON WEDNESDAY, OCTOBER 31, 2018**

**5894 ITEM-P LOW GAS PRESSURE IN BAHAWALPUR AND LODHRAN SYSTEM  
AUGMENTATION**

After due deliberation and in accordance with the recommendations of the Finance & Procurement Committee given at its 297<sup>th</sup> meeting held on October 26, 2018, the Board accorded approval in principle in respect of the following subject to completion of all procedural/codal, legal and financial pre-requisites:-

- i) Construction of 16" Ø × 49 KM transmission spur from Repeater Station (A5) at Khairpur Daha to Bahawalpur and up-gradation of SMS Bahawalpur up to 100 MMCFD at a total budgeted cost of Rs. 1931 million (Rupees one thousand nine hundred and thirty one million) by taking budgetary approval from OGRA for FY 2018-19.
- ii) Due to current liquidity position, mainly owing to negative impact on GDS for the last many years due to non / partial increase of sales prices by GOP, Company may not be in a position to finance the proposed expenditure in view of the fact that neither the cash flows generated by the Company are sufficient to cater for any additional expenditures (over and above the already approved budgets) nor the company may be able to raise borrowing to avoid breach of existing loan covenants. In view of the foregoing, the financing plan of this project will be evaluated after the approval of the project by OGRA keeping in view the various dynamics at that particular time.
- iii) The project cost is exclusive of markup capitalization. The markup on loan finance will be capitalized in the project cost in accordance with International Accounting Standards, if the project is carried out through borrowed funds.
- iv) In view of the fact that the breakup of the total project cost in different heads/components is tentative in nature. Management may be allowed to reallocate the budget within different heads (if required) keeping overall expenditure within the total proposed project cost.



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**SUI NORTHERN GAS PIPELINES LIMITED**

**AGENDA FOR THE FINANCE / PROCUREMENT COMMITTEE**

**MEETING - ITEM NO. 11**

**LOW GAS PRESSURE IN BAHAWALPUR AND LODHRAN SYSTEM AUGMENTATION**

Presently, gas is being supplied to Bahawalpur city, Lodhran city and adjoining localities through SMS Bahawalpur which exists at the tail end of 8"Ø × 29.91 Miles (48.15 KM) transmission line originating from Repeater Station (A5) at Khairpur Daha upto Bahawalpur. In addition to SMS Bahawalpur, 4 No. other SMSs i.e. SMS Sama Satta, SMS Khanqah sharif, SMS Mubarakpur and SMS Hatheji have also been constructed on aforementioned transmission pipeline while another 2 No. SMSs i.e. SMS Lodhran and SMS MandiYazman are also under construction for bifurcation of distribution networks.

Over the years, the peak load requirement on repeater station(A5) at Khairpur Daha - Bahawalpur transmission pipeline segment has increased manifolds and has reached upto 64 MMCFD due to continuous expansion of distribution network and consumer base while a further 35-38 MMCFD increase in connected load is expected in near future due to under process RLNG based applications of various perspective commercial, industrial and private housing schemes consumers in addition to in-process domestic gas applications on system gas which shall equate to a connected load of 102 MMCFD. It is worth mentioned here that only SMS Bahawalpur has a peak connected load of 50 MMCFD out of 64 MMCFD peak connected load on this segment. The maximum throughput capacity of aforementioned transmission line is 46 MMCFD at its MAOP (1045 Psig), However, this pipeline is being operated at a regulated pressure of 500 psig for more than 10 years owing to load management/huge demand and supply gap of available gas, resulting in reduction of its throughput capacity to 17 MMCFD. Although, injection of imported RLNG into our transmission system during the last 2 years has significantly addressed the overall gas demand and supply gap within the country, however, aforementioned transmission pipeline cannot be operated at its MAOP as ASME B 31.8 (Gas transmission and distribution system design code) necessitates hydrostatic testing of transmission line if it is to be operated at higher pressures than its historical pressure. The same is not operationally feasible as this transmission line is the only source for supply of gas to its downstream connected consumers and as such its complete shutdown for a considerable period of time for undertaking hydrostatic testing activity is undesirable.

During the last few years, residents of Bahawalpur, Lodhran and its adjoining localities are facing acute low gas pressures / no gas issues during winter seasons due to system capacity constraints detailed above resulting in several protests from local residents intimidating law and order situation. Furthermore, addition of anticipated 35-38 MMCFD peak load on this segment in lieu of In-process domestic gas connection applications and various RLNG based commercial/ industrial / housing schemes connection applications shall further aggravate the low pressure / no gas issues in coming years.

In order to address the acute low gas pressure / no gas issues of Bahawalpur City, Lodhran City and adjoining localities as highlighted above, we have carried out detailed site survey and simulation study on TG NET software in coordination with transmission department which reveals that replacement of existing A5 (Khairpur Daha) - Bahawalpur transmission pipeline with 16"Ø transmission pipeline is required along with upgradation of A5 valve assembly and up-gradation of existing SMS Bahawalpur upto 100 MMCFD.

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The capacity of the proposed 16"Ø spur line from repeater station (A5) at Khairpur Daha - to Bahawalpur with replacement option shall be 136 MMCFD making it coherent with the anticipated Peak gas load requirements on this segment, thereby, resulting in alleviation of low pressure problems of Bahawalpur City, Lodhran City and adjoining localities once and for all. It is pertinent to mention here that looping is only feasible if existing 8" dia pipeline successfully withstands/passes the hydrostatic testing after successful commissioning of proposed 16" dia system augmentation and therefore only replacement results are being considered at this Stage as the existing 8" dia pipeline shall be abandoned if it fails during hydrostatic retesting.

The results of the proposed replacement/looping of A5 (Khairpur Daha) - Bahawalpur segment with 16" dia x 29.91 Miles (48.15 KM) transmission line are as follows:

Sr. No	Existing			After Replacement under Low Pressure Conditions			After Looping under Low pressure Conditions*		
	Network	Pressure (PSIG)	Capacity (MMCFD)	Network	Pressure (PSIG)	Capacity (MMCFD)	Network	Pressure (PSIG)	Capacity (MMCFD)
1	8" dia x 29.91 Miles (48.15 Km)	500-300 800-300	17 34	16" dia x 29.91 Miles (48.15 Km)	800-500	136	16" dia x 30.43 Miles (49 Km)** & 8" dia x 29.91 Miles (48.15 Km)	800-500	162

\*Looping is only feasible, if existing 8" dia pipeline passes the testing after laying/commissioning of new pipeline.

\*\*The difference in length between existing and proposed loopline is due to re-routing involved at various locations where enough space for pipeline laying is not available due to existence of dense population.

Total budgeted capital cost of the infrastructure required for proposed system augmentation shall be as follow:

Sr. No.	Infrastructure Required for Augmentation	Budgeted Cost Rs. Million
1-	Construction of 16" dia x 30.43 Miles (49 Km) A5 (Khairpur Daha) - Bahawalpur transmission pipeline	1631
2-	Upgradation of SMS Bahawalpur upto 100 MMCFD capacity	300
Grand Total		1931

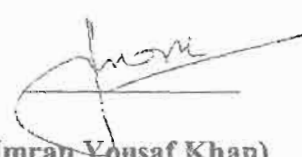
The details of the simulation study carried out on TG NET software are enclosed as Annexure-A whereas Map showing the location of proposed augmentation arrangement is enclosed as Annexure-B while details of the cost estimates worked out for required infrastructure for augmentation purpose are attached as Annexure-C.

It is hereby certified by the management that all procedural codal, legal, and financial perquisites shall be fulfilled for completion of the project.

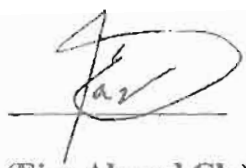
**RECOMMENDATIONS:**

It is recommended by the Management to the Finance & Procurement Committee of Directors to recommend to the Board of Directors for approval in respect of

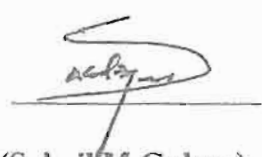
1. Construction of 16" Ø x 49 KM transmission spur from Repeater Station (A5) at Khairpur Daha to Bahawalpur and up-gradation of SMS Bahawalpur up to 100 MMCFD at a total budgeted cost of Rs. 1931 million (Rs. One thousands nine hundred and thirty one million) by taking budgetary approval from OGRA for FY 2018-19.
2. Due to current liquidity position, mainly owing to negative impact on GDS for the last many years due to non / partial increase of sales prices by GOP, Company may not be in a position to finance the proposed expenditure in view of the fact that neither the cash flows generated by the Company are sufficient to cater for any additional expenditures (over and above the already approved budgets) nor the company may be able to raise borrowing to avoid breach of existing loan covenants. In view of the foregoing, the financing plan of this project will be evaluated after the approval of the project by OGRA keeping in view the various dynamics at that particular time.
3. The project cost is exclusive of markup capitalization. The markup on loan finance will be capitalized in the project cost in accordance with International Accounting Standards, if the project is carried out through borrowed funds
4. In view of the fact that the breakup of the total project cost in different heads/components is tentative in nature, Management may be allowed to reallocate the budget within different heads (if required) keeping overall expenditure within the total proposed project cost.



(Imran Yousaf Khan)  
General Manager (P&D)



(Ejaz Ahmed Ch.)  
Sr. General Manager (ES)



(Sohail M Gulzar)  
Sr. General Manager (D-South)



(Saghir Ul Hassan Khan)  
Chief Financial Officer



(Amjad Latif)  
Managing Director

**TG NET SIMULATION RESULTS FOR AUGMENTATION OF 8" DIA A5 - BAHAWALPUR PIPELINE**

**SEGMENT**

- 1- Existing 500 Psig pressure at A5 and peak loads at SMSs, except SMS Bahawalpur

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	500	471	448	340	327	300
FLOW (MMCFD)	17.4	0.1	0.5	1.2	1.8	14

- 2- Low mainline pressure at SMS Bahawalpur

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	500	456	420	215	182	70
FLOW (MMCFD)	21.36	0.1	0.5	1.2	1.6	17.96

- 3- With 800 Psig pressure at A5 and future loads at SMSs, except SMS Bahawalpur

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	800	456	420	215	182	300
FLOW (MMCFD)	34.16	0.5	1.5	5	9	18.16

- 4- MAOP of 1065 Psig pressure at A5 for 8" dia pipeline and future loads at SMSs, except SMS Bahawalpur

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	1065	972	896	473	413	300
FLOW (MMCFD)	46	0.5	1.5	5	9	30

- 5- Looping / Replacement of existing pipeline with different diameter pipelines to meet future load requirement

- a- Replacement with 12" dia pipeline

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	800	740	691	426	389	300
FLOW (MMCFD)	89	0.5	1.5	5	9	73

- a1- Replacement with 12" dia pipeline

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	800	757	723	558	539	500
FLOW (MMCFD)	75	0.5	1.5	5	9	59

- b- Replacement with 16" dia pipeline

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	800	775	756	670	660	639
FLOW (MMCFD)	106	0.5	1.5	5	9	90

- c- Replacement with 18" dia pipeline

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	800	787	777	734	729	719
FLOW (MMCFD)	106	0.5	1.5	5	9	90

- 6- Capacities of Pipelines

- a) Capacity of the segment after replacement with 16" dia pipeline:

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	800	759	726	566	546	500
FLOW (MMCFD)	136	0.5	1.5	5	9	120

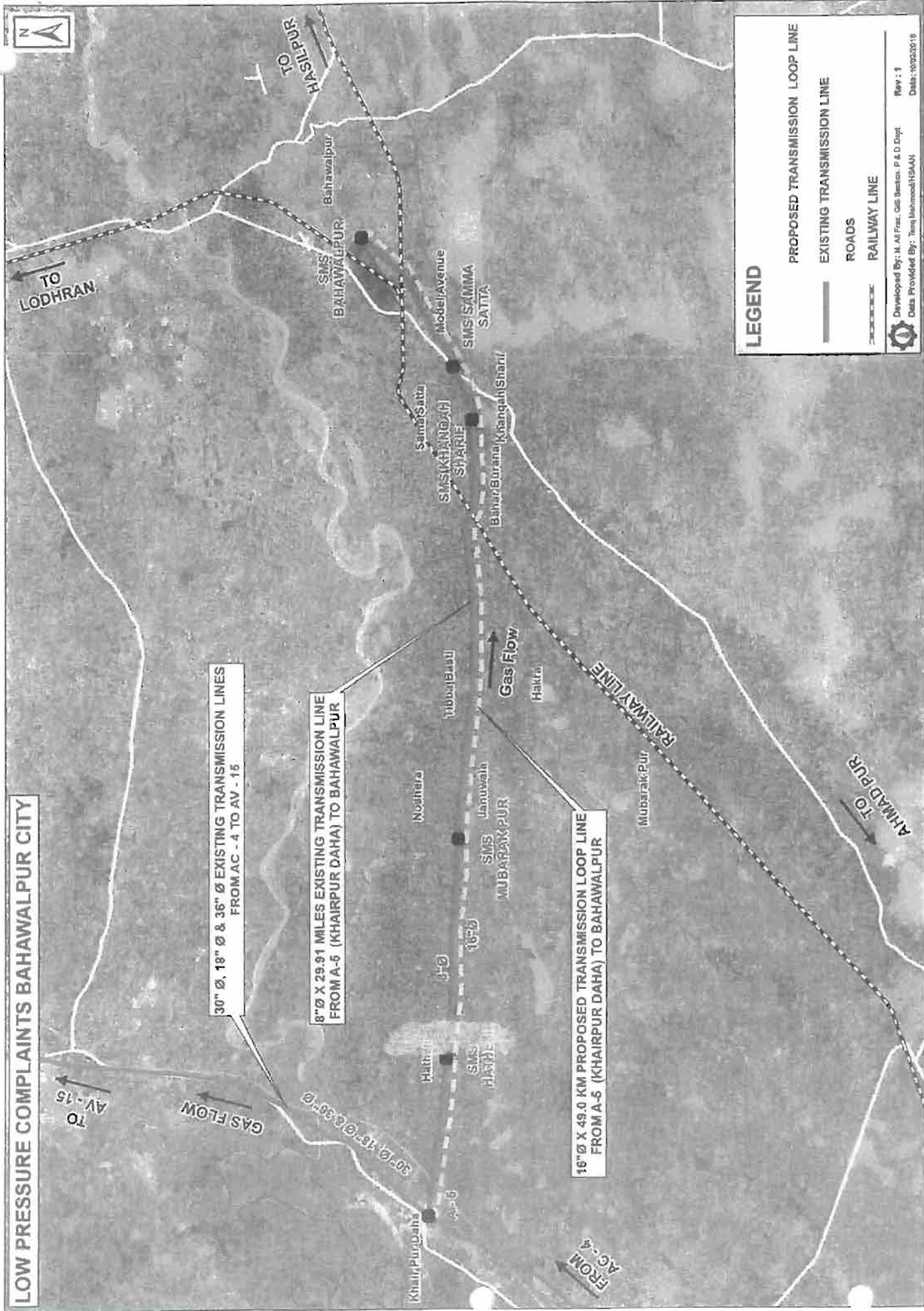
- b) Capacity of the segment after looping with 16" dia pipeline:

LOCATION	A5	SMS Hatheji	SMS Mubarakpur	SMS Khankah Sharif	SMS Samma Satta	SMS Bahawalpur
PRESSURE (PSIG)	800	759	727	568	549	500
FLOW (MMCFD)	162	0.5	1.5	5	9	146

**NOTE:**

- Looping is only feasible, if existing 8" dia pipeline passes the testing after laying/commissioning of new pipeline, therefore only replacement results are mentioned.
- Above results show that, replacement of existing 8" dia pipeline pipeline at least with 16" dia pipeline would be required to meet the future load requirement, as conveyed by Bahawalpur region.
- Pressure of 800 Psig at A5 has been considered to account for the low main system pressure situations.

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**Budgeted Cost**

**Repeater Station at Khairpur Daha (A5)- Bahawalpur**  
**16" dia x 49 KM 0.281"/0.344" WT Pipeline**

192

**A Pipeline System**

Description		(Million Rupees)
		Total
1	<b>Material</b>	
	- Line pipe	722.031
	- Coating Cost	98.980
	- Valves & Fittings for pipeline & regulating station st starting point	102.788
	- Joint Coating	15.092
	- Cathodic Protection	2.000
	- Transportation	15.705
		<b>(a) 956.597</b>
2	Construction Cost	156.800
3	Crop Compensation	84.404
4	Freehold Land	241.154
5	Major Crossings & civil works	25.000
6	Security	3.500
7	Quality Assurance / HSE	20.000
8	Survey, Design & Consultancy	2.000
9	Camp set-up	25.000
10	Overheads	39.200
		<b>(b) 597.057</b>
	Contigencies ( 5 %)	77.683
	<b>Total</b>	<b>(a+b) 1,631.337</b>
	<b>Total</b>	<b>1,631.337</b>

33.29

Dollar rate is taken as Rs. 135



Repeater Station at Khairpur Daha (A5)- Bahawalpur

16" dia x 49 KM 0.281"/0.344" WT Pipeline

Basis of Cost Estimate

Description

☆ Pipe

16" dia 49 km

85.32 Kg. / Mtr.

69.91 Kg. / Mtr.

Tonnage

344.69

3,177.41

3,522

0.344\*4 Km.

0.281\*45 Km.

Price Per Ton

Rs.205,000 / Ton

Wastage

1 % of pipe

Coating Cost

Rs. 2000/ meter

Valves & Fittings

14% of Pipe cost

Joint Coating

1 Km = 100 Joints (Rs. 3080 / Joint)

Cathodic Protection

Rs. 2.000 million

Transportation

Rs. 8.4 / M.Ton / Km.

Construction Cost

Simple terrain

Rs. 0.200 million / inch/km

Crop Compensation

Rs. 0.700 million /Acre

Freehold Land

49 km 11 feet

Rs. 6 million /Acre

Way leave

22 feet



# SUI NORTHERN GAS PIPELINES LIMITED

GAS HOUSE, 21 KASHMIR ROAD, P.O. BOX 56, LAHORE (PAKISTAN)

Annex A

158

Reference: RA-TAR-18-19(P)-048

Date: November 06, 2018

Registrar,  
Oil and Gas Regulatory Authority,  
Fazal I Haq Road,  
Blue Area,  
Islamabad.

Dear Sir,

**APPROVAL UNDER CLAUSE 20 (XVIII) OF THE NATURAL GAS LICENSING RULES 2002  
AUGMENTATION/BIFURCATION OF GAS NETWORK IN LAHORE CITY**

Please refer to the captioned subject, in this regard it is submitted that low gas pressures are being observed in Lahore city especially at its eastern part and other tail end areas in peak winter resulting in several protests from local residents. Moreover, vastly expanded distribution network downstream of each SMS is causing various operational problems for effectively managing pressure profiling activities. These issues have been addressed by proposing the bifurcation of distribution network and construction of new feed points (i.e SMSs) after laying of requisite transmission spurs through less densely populated areas of Lahore city.

Accordingly, the Company has prepared a plan to lay above mentioned infrastructure amounting to Rs. 5,787 million in two phases i.e. Rs. 3,424 million for Phase-I and Rs. 2,363 million for Phase-II.

The Board of Directors (BOD) in its 513<sup>th</sup> meeting held on October 31, 2018 has accorded approval of the above mentioned project. The Detailed agenda along with the BOD approval is enclosed as *Annex-A*.

Keeping in view the importance of the project, the Authority is requested to grant approval under clause 20 (XVIII) of the Natural Gas Regulatory Authority (Licensing Rules), 2002.

With best regards.

Yours faithfully,  
Sui Northern Gas Pipelines Ltd

  
(LIAQAT ALI)  
Chief Officer (RA)  
for Managing Director

Encl: As above

Telephones Exch. { +92-42-99082009 Telephones: { 042-99201483 Fax: 042-99204424 www.sngpl.com.pk  
+92-42-99082006



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# SUI NORTHERN GAS PIPELINES LIMITED

GAS HOUSE, 21 KASHMIR ROAD, P.O. BOX 56, LAHORE (PAKISTAN)

159

Reference: RA-TAR-18-19(P)-048

Date: November 06, 2018

Registrar,  
Oil and Gas Regulatory Authority,  
Fazal I Haq Road,  
Blue Area,  
Islamabad.

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**AUGMENTATION/BIFURCATION OF GAS NETWORK IN LAHORE CITY**

Please refer to the captioned subject, in this regard it is submitted that low gas pressures are being observed in Lahore city especially at its eastern part and other tail end areas in peak winter resulting in several protests from local residents. Moreover, vastly expanded distribution network downstream of each SMS is causing various operational problems for effectively managing pressure profiling activities. These issues have been addressed by proposing the bifurcation of distribution network and construction of new feed points (i.e SMSs) after laying of requisite transmission spurs through less densely populated areas of Lahore city.

Accordingly, the Company has prepared a plan to lay above mentioned infrastructure amounting to Rs. 5,787 million in two phases i.e. Rs. 3,424 million for Phase-I and Rs. 2,363 million for Phase-II.

The Board of Directors (BOD) in its 513<sup>th</sup> meeting held on October 31, 2018 has accorded approval of the above mentioned project. The Detailed agenda along with the BOD approval is enclosed as *Annex-A*.

Keeping in view the importance of the project, the Authority is requested to grant approval under clause 20 (XVIII) of the Natural Gas Regulatory Authority (Licensing Rules), 2002.

With best regards.

Yours faithfully,  
Sui Northern Gas Pipelines Ltd

  
(LIAQAT ALI)  
Chief Officer (RA)  
for Managing Director

Encl: As above

**N.O.O**

cc: GM (P&D) This refers to your memo No. P&D/02-12321 dated 05.11.2018.

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**EXTRACT FROM THE DRAFT MINUTES OF THE 513<sup>TH</sup> MEETING  
OF THE BOARD OF DIRECTORS HELD ON WEDNESDAY, OCTOBER 31, 2018**

**5892 ITEM-N AUGMENTATION / BIFURCATION OF GAS NETWORK IN  
LAHORE CITY**

After due deliberation and in accordance with the recommendations of the Finance & Procurement Committee given at its 297<sup>th</sup> meeting held on October 26, 2018, the Board accorded approval in principle in respect of the following subject to completion of all procedural/codal, legal and financial pre-requisites:

- a) Construction of above proposed Lahore augmentation / Bifurcation plan at a total cost of Rs. 5,787.00 Million (Rupees five thousand seven hundred and eighty seven million) to be undertaken in two phases by obtaining budgetary approval from OGRA.
- b) Construction of the project shall commence after the receipt of OGRA approval and evaluation / arrangement of financing plan.
- c) Construction of phase-II of the project shall be undertaken after the completion of Phase-I.
- d) Any revision in the cost of Phase-II of the project on account of currency fluctuation / inflation, if required at later stage will be sought at the time of commencement of Phase-II
- e) Due to current liquidity position, mainly owing to negative impact on GDS for the last many years due to non / partial increase of sales prices by GOP, Company may not be in a position to finance the proposed expenditure in view of the fact that neither the cash flows generated by the Company are sufficient to cater for any additional expenditures (over and above the already approved budgets) nor the Company may be able to raise borrowing to avoid breach of existing loan covenants. In view of the foregoing, the financing plan of this project will be evaluated after the approval of the project by OGRA keeping in view the various dynamics at that particular time.
- f) The project cost is exclusive of markup capitalization. The markup on loan finance will be capitalized in the project cost in accordance with International Accounting Standards, if the project is carried out through borrowed funds;
- g) In view of the fact that the breakup of the total project cost in different heads/components is tentative in nature, Management may be allowed to reallocate the budget within different heads (if required) keeping overall expenditure within the total proposed project cost.



AGENDA FOR THE FINANCE / PROCUREMENT COMMITTEE  
MEETING - ITEM NO. 1

AUGMENTATION / BIFURCATION OF GAS NETWORK  
IN LAHORE CITY

Lahore being the Metropolitan city of Pakistan is being supplied gas through three SMS's i.e. SMS B-3 located at Shahdara, SMS-II & SMS III located at Defence road near Mohlanwal, having capacities of 175 MMCFD, 170 MMCFD and 190 MMCFD respectively. Beside Lahore City, SMS II & SMS III are also supplying gas to Kasur City and its adjoining / surrounding areas through 16" dia supply main. On the average each SMS is supplying gas to around 333,000 consumers and has an average gas network of around 5,000 KM. In the recent winters peak gas load recorded through these SMS's were 300 MMCFD in total. Despite the supply of this quantity of gas, low pressure / no gas complaints are witnessed in various parts of Lahore city as system is being operated at optimal pressures owing to the fact that most of the network of Lahore city was laid 30-40 years back and operation of this network at higher pressure may cause the system vulnerable to any unsafe situation. Moreover, over the years the peak load requirement on Lahore City's distribution network has increased exponentially and has reached up to 400 MMCFD due to continuous expansion of distribution network and rapid increase in consumer base while a further 80-100 MMCFD increase in connected load is expected in near future due to under process RLNG based applications of various prospective commercial, industrial and private housing schemes consumers besides in process domestic gas applications on system gas which shall equate to a connected peak load of more than 500 MMCFD. This exponential increase in peak load requirements during winter season with each passing year due to rapid development and vast expansion of Lahore city coupled with the continuous expansion of distribution network has resulted in depleting pressures at tail end of distribution network despite operation of all three SMSs at their optimal downstream pressure settings.

Currently, low gas pressures are being observed in Walled City, Baghban pura, Gulberg, DHA, Cantonment Areas, Chungi Amer Sidhu, Model Town, Johar Town, Iqbal Town, Harbence pura, Barki and other tail end areas in peak winter and this list is going to add in itself a lot more in future if no remedial measures are taken at this point in time. Furthermore, the vastly expanded distribution network downstream of each SMS is causing various operational problems for effectively managing pressure profiling activities. It is need of the hour that bifurcation of distribution network is undertaken for efficiently managing network operations and mitigating low pressure issues being faced by tail end consumers by construction of multiple SMSs (new feed points) after laying of requisite transmission spur through less densely populated areas of Lahore City along its periphery and installation of separate metering/regulation on major gas supply mains to segregate gas network/loads of Lahore city to have its flexible and efficient control. It is worth mentioning here that due to rapid development and vast expansion of Lahore city, SMS II & SMS III have got engulfed in thick population and have become a safety hazard for surrounding population and therefore, need to be relocated to a safer and less populated location.

In addition to above, eastern part of Lahore city (Barki & Dial) is being fed from SMS B-3 and SMS-III resulting in rising low gas pressure complaints due to distant location and non-feasible technical operation of SMSs. Rapid expansion / development in the eastern part is also being witnessed which necessitate the requirement of alternate solution. Accordingly, the proposed augmentation plan envisages laying of new transmission line up to eastern part which shall not only facilitate the resolution of low gas pressure at present but would also cater the requirement of additional anticipated loads in this area.

**INFRASTRUCTURE REQUIREMENT / REMEDIAL MEASURES:**

In order to address the operational constraints, low pressure / no gas issues and rapid expansion / development plans in Lahore city as highlighted / detailed above, an augmentation / bifurcation plan of gas supply to Lahore city has been prepared by considering the operation of gas distribution network at optimum conditions by providing multiple feed points to gas distribution network in Lahore city through detailed site survey and comprehensive analysis/simulation study. As per plan, following infrastructure/remedial measures are required to be undertaken as described below:

- a. 24"Ø × 48 KM transmission spur has been proposed from Phool Nagar V/A to Nabi Bakshwala where 2 No SMSs namely SMS Kasur and SMS Ferozpur road shall be constructed. The capacity of proposed SMS Kasur near Sua Aasil Ferozpur road shall be 20 MMCFD where it shall be connected with 16"Ø existing supply main resulting in segregation/bifurcation of gas loads of Kasur city, Mustafabad and enroute/adjoining localities from SMS II and SMS III whereas the capacity of proposed SMS Ferozpur road near Sua Aasil shall be 30 MMCFD where it shall be connected with 16"Ø existing supply main resulting in segregation/shifting of gas loads of Kahna, Kacha, Gajju Matta, Youhanabad, Ghazi road and enroute/adjoining localities on Ferozpur road from SMS II & III.
- b. 16"Ø × 27 KM transmission spur has been proposed from upstream of SMS Kasur/ SMS Ferozpur road to Barki where proposed SMS Barki of capacity 40 MMCFD shall be constructed and subsequently, laying of 16"Ø × 2.5 KM supply main would be required from proposed SMS Barki upto BRB in order to connect 16"Ø existing supply main near BRB with this proposed SMS Barki. This shall result in segregation/shifting of gas loads of DHA (all phases), Cantonment areas, Barki, Hadiara, Mehfoozpora, and enroute/adjoining localities falling at tail end of SMS II & III.
- c. 8"Ø × 16 KM transmission spur has been proposed from upstream of SMS Barki to Dial where proposed SMS Dial of capacity 10 MMCFD shall be constructed and subsequently, laying of 10"Ø × 10 KM supply main would be required from proposed SMS Dial up to DaroghaWala Chowk in order to connect 16"Ø existing supply main with this proposed SMS Dial. This shall result in segregation/shifting of gas loads of Batapur, Harbencepura, Jallo, Mehmood Booti, Shalimar town and enroute/adjoining localities falling at tail end of SMS II & III and SMS B III.

- d. SMS II & SMS III located at Defence Road near Molanhanwal which are presently engulfed in thick population and have become a safety hazard for its surrounding localities, shall be shifted 17.50 Km upstream of its existing location near Manga offtake. Capacity of SMS II & SMS III to be constructed at this new location near Manga offtake shall be 150 MMCFD each.
- e. 16"Ø and 18"Ø x 17.50 KM existing transmission lines from newly proposed location of SMS II & III at Manga offtake to current location of SMS II & III near Mohlanwal shall be declared as High Pressure supply mains which shall be operated at 270 Psig each downstream of these newly proposed SMS II & III at Manga Offtake.
- f. Due to declaration of 16" Ø and 18"Ø transmission lines from Manga Offtake to Mohlanwal as high pressure supply mains, laying of 16"Ø x 6.50 KM transmission line from Manga offtake to Sunder offtake shall be required to ensure uninterrupted gas supply to existing SMS Sunder.
- g. Due to Shifting of SMS II & III near Manga offtake, construction of Section IV office block along with construction of residential colony for operation staff shall be required at SMS II & III's new location i.e. near Manga offtake.
- h. Existing SMS II & III shall be converted into distribution regulating station comprising 4 legs having separate regulation and measurement facilities for each injecting into existing 16"Ø, 18"Ø, 24"Ø and 24"Ø supply mains for facilitating their optimal operation as per their dynamics and requirement.

#### **BENEFITS OF PROPOSED AUGMENTATION / BIFURCATION PLAN/ SCHEME:**

The proposed plan /scheme as outlined above shall have the following major benefits:

1. Addition of new feed points (new SMSs) shall facilitate efficient supply of gas to deprived tail end consumers.
2. Operation of gas distribution network through new feed points at optimum pressures will lead to elimination of fag points resulting into improved measurement accuracy.
3. Separate regulation/metering of gas loads supplied to different localities of Lahore city would facilitate ease of operation and simpler load reconciliation.
4. Multiple feed points (new SMSs) and supply mains shall be available to facilitate RLNG consumers through third party access (if required).
5. Shifting of SMSs/ High pressure transmission network outside Lahore City shall minimize safety/security risk and ensure safe operation.
6. Addition of new transmission spurs (new multiple feeding points for Lahore city) would minimize emergency risk of gas stoppages by utilizing alternate feed points.

The result of the simulation study carried out on TG NET covering various options showing the dynamics and capacities of proposed system are enclosed as Annexure-A. Proposed plan / scheme of the Lahore City Augmentation / Bifurcation project is attached as Annexure-B. Map showing the location of proposed Network Augmentation / Bifurcation of Lahore city is enclosed as Annexure- C.

**INFRASTRUCTURE PHASING PLAN ALONG WITH CAPITAL COST ESTIMATES: 165**

The Company has planned to execute the above mentioned augmentation / bifurcation plan of the Lahore City in two phases. Details of the phases along with cost estimates are as follow:

Phase-I			Phase-II		
Sr. No.	Description	Cost (Rs. Million)	Sr. No.	Description	Cost (Rs. Million)
<b>Transmission Lines</b>			<b>Transmission Lines</b>		
1	24" x 48 Km from Phoolnager to Ferozpur Road	2332.0	1	8" x 16 Km from Barki to Dial	306.0
2	16" x 27 Km from Ferozpur road to Barki	797.0	2	16" x 6.5 Km from Manga Mandi to Sunder	222.0
<b>SMS'S</b>			<b>SMS'S</b>		
1	Kasur Capacity 20 MMCFD	90.0	1	Ferozpur road Capacity 30 MMCFD	100
2	Barki Capacity 40 MMCFD	145.0	2	Dial Capacity 10 MMCFD	75
			3	SMS II & III Capacity 150 MMCFD Each	800
<b>Supply Mains</b>			<b>Regulating and Metering Station</b>		
1	16" x 2.5 Km from SMS Barki to BRB	60	1	Regulation & Metering Station at Old SMS (4 legs)	510.0
			<b>Supply Mains</b>		
			1	10" x 10 Km from SMS Dial to G.T. Road	136
			<b>Land</b>		
			1	10 Acre Land for Office Block, Residential Block & New SMS II & III station	60.0
			<b>Office &amp; Residential Block</b>		
			1	Construction of Office & Residential Block	154
<b>Total Cost (Rs. Million)</b>		<b>3424</b>	<b>Total Cost (Rs. Million)</b>		<b>2363</b>
<b>Grand Total (Rs. Million)= 5787</b>					
<b>Tentative Completion Period</b>			<b>Tentative Completion Period</b>		
1	2 Years		1	2 Years	

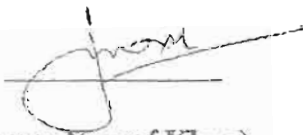
Phase-II shall be started after the completion of Phase-I. Details of the cost estimates worked out for proposed infrastructure are attached as Annexure-D.

It is hereby certified by the management that all procedural, legal, and financial prerequisites shall be fulfilled for completion of the project.

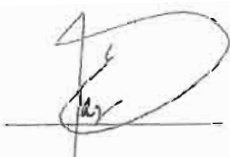
**RECOMMENDATIONS:**

It is recommended by the Management to Finance and Procurement Committee of Directors to recommend to the Board of Directors for approval in respect of:


- a) Construction of above proposed Lahore augmentation / Bifurcation plan at a total cost of Rs. 5,787.00 Million (Rs. Five thousands seven hundred and eighty seven million) to be undertaken in two phases by obtaining budgetary approval from OGRA.
- b) Construction of the project shall commence after the receipt of OGRA approval and evaluation / arrangement of financing plan.
- c) Construction of phase-II of the project shall be undertaken after the completion of Phase-I.
- d) Any revision in the cost of Phase-II of the project on account of currency fluctuation / inflation, if required at later stage will be sought at the time of commencement of Phase-II
- e) Due to current liquidity position, mainly owing to negative impact on GDS for the last many years due to non / partial increase of sales prices by GOP, Company may not be in a position to finance the proposed expenditure in view of the fact that neither the cash flows generated by the Company are sufficient to cater for any additional expenditures (over and above the already approved budgets) nor the Company may be able to raise borrowing to avoid breach of existing loan covenants. In view of the foregoing, the financing plan of this project will be evaluated after the approval of the project by OGRA keeping in view the various dynamics at that particular time.
- f) The project cost is exclusive of markup capitalization. The markup on loan finance will be capitalized in the project cost in accordance with International Accounting Standards, if the project is carried out through borrowed funds;
- g) In view of the fact that the breakup of the total project cost in different heads/components is tentative in nature, Management may be allowed to reallocate the budget within different heads (if required) keeping overall expenditure within the total proposed project cost.



(Imran Yousaf Khan)  
General Manager (P&D)



(Ejaz Ahmed Ch.)  
Sr. General Manager (ES)



(Sohail M Gulzar)  
Sr. General Manager (D-South)



(Saghir Ul Hassan Khan)  
Chief Financial Officer



(Amjad Latif)  
Managing Director

**RESULTS OF TG NET SIMULATION STUDY**

**Construction of 91 Km pipelines for installation of new SMSs for Lahore region**

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**1-Pipelines: 24", 16" & 8"**

a) **Pipelines Detail: Phoolnagar-Kasur/Ferozpur Rd. =24" x 48 Km, Kasur/Ferozpur Rd.-Barki = 16" x 27 Km, & Barki - Dial = 8" x 16 Km**

LOCATION	Statring point Phoolnagar V/A	SMS Kasur (KMP-48)	SMS Ferozpur (KMP-48)	SMS Barki (KMP-75)	SMS Dial (KMP-91)
PRESSURE (PSIG)	600	580	580	556	541
	500	476	476	447	428
FLOW (MMCFD)	100	20	30	40	10

**2-Pipelines: 24", 16" & 10"**

b) **Pipelines Detail: Phoolnagar-Kasur/Ferozpur Rd. =24" x 48 Km, Kasur/Ferozpur Rd.- Barki = 16" x 27 Km, & Barki - Dial = 10" x 16 Km**

LOCATION	Statring point Phoolnagar V/A	SMS Kasur (KMP-48)	SMS Ferozpur (KMP-48)	SMS Barki (KMP-75)	SMS Dial (KMP-91)
PRESSURE (PSIG)	600	580	580	556	550
	500	476	476	447	439
FLOW (MMCFD)	100	20	30	40	10

**3-Pipelines: 16", 16" & 10"**

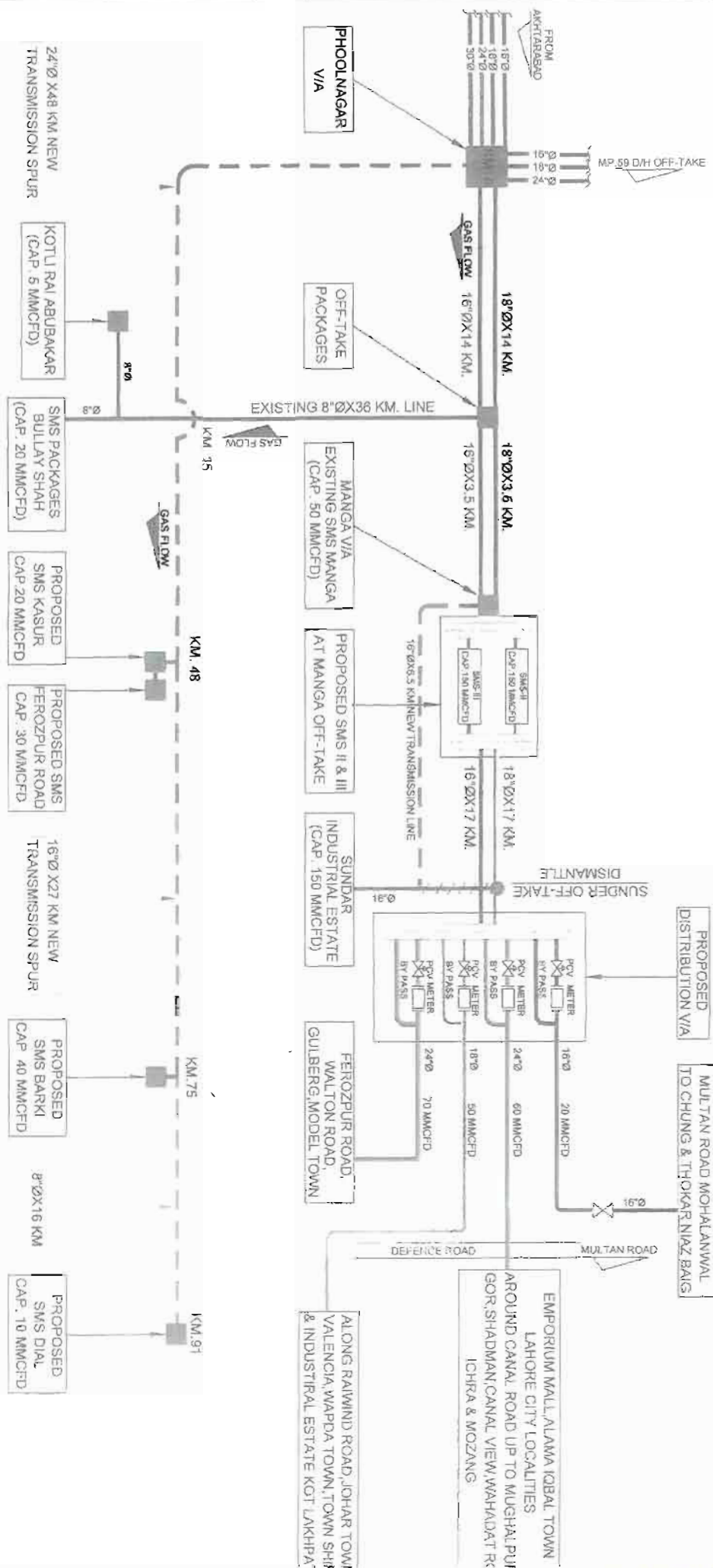
c) **Pipelines Detail: Phoolnagar-Kasur/Ferozpur Rd. =16" x 48 Km, Kasur/Ferozpur Rd.- Barki = 16" x 27 Km, & Barki - Dial = 10" x 16 Km**

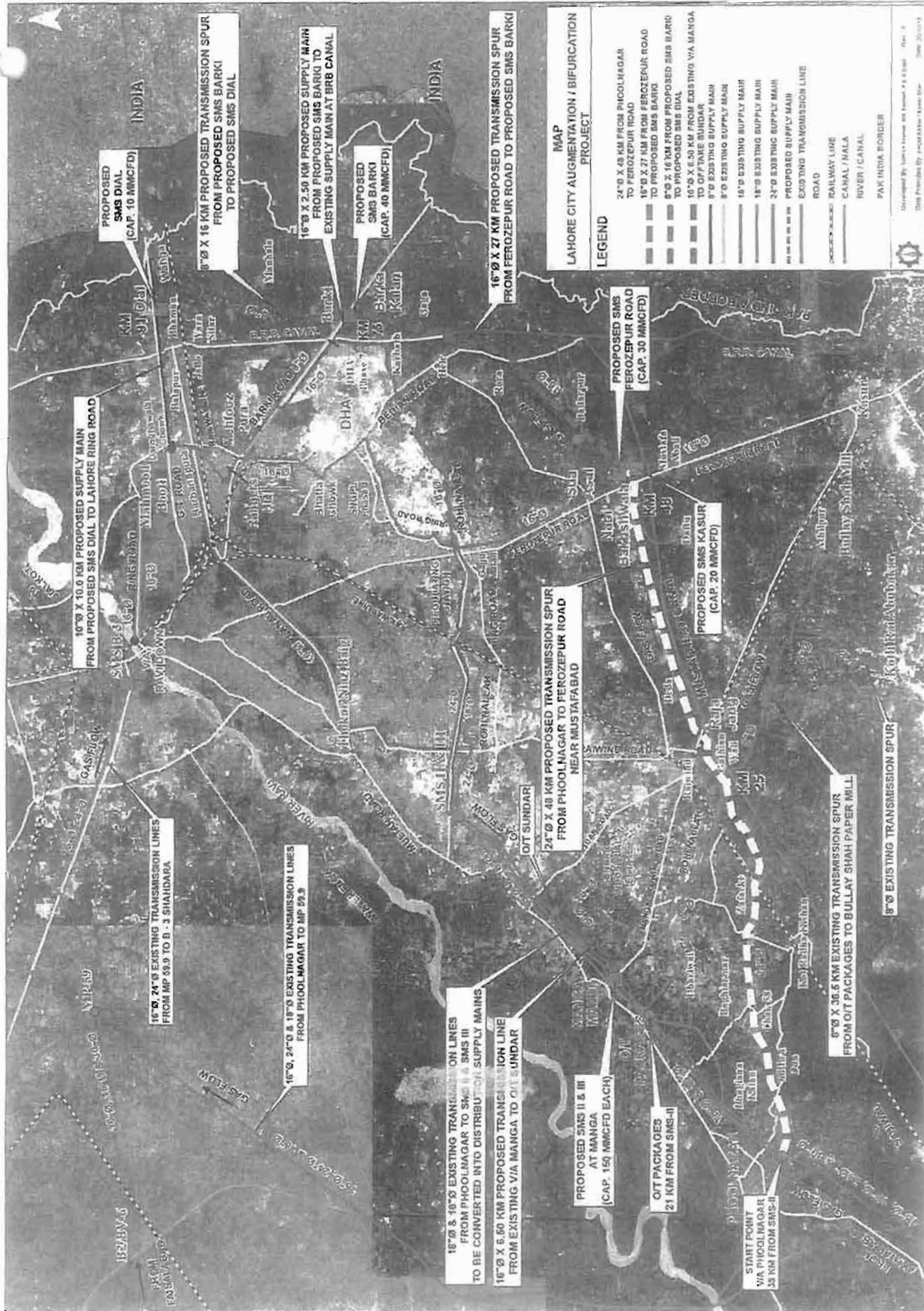
LOCATION	Statring point Phoolnagar V/A	SMS Kasur (KMP-48)	SMS Ferozpur (KMP-48)	SMS Barki (KMP-75)	SMS Dial (KMP-91)
PRESSURE (PSIG)	600	405	405	370	360
	500	231	231	164	142
FLOW (MMCFD)	100	20	30	40	10

**Note:**

- 1- 600 Psig & 500 Psig pressures have been considered at starting point on N-leg to account for the periods of low transmission system pack / pressures.
- 2- With above mentioned pressures, capacity of proposed 24" pipeline comes out as 100 MMCFD, proposed 16" pipelien as 70 MMCFD, 10" pipeline as 15 MMCFD and that of proposed 8" pipeline comes out as 10 MMCFD.









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**Budgeted Cost****Laying of 24" Dia 48 Km 0.375" /0.312" W.T. Transmission Line****Phool Nagar To Ferozepur Road****(Million Rupees)**

<u>Description</u>	<u>F. E.</u>	<u>Duties</u>	<u>Others</u>	<u>Total</u>
(1) <b>Material</b>				
Line pipe	-	-	1,238.387	1,238.387
Coating Cost	27.472	5.494	78.538	111.504
Valves & Fittings	113.440	28.360	6.806	148.606
Joint Coating	16.753	4.188	1.005	21.946
Cathodic Protection	3.817	0.954	0.229	5.000
Transportation	-	-	38.275	38.275
(a)	<u>161.482</u>	<u>38.996</u>	<u>1,363.240</u>	<u>1,563.718</u>
(2) Construction Cost	-	-	253.440	253.440
(3) Crop Compensation	-	-	48.763	48.763
(4) Freehold Land	-	-	217.939	217.939
(5) Major Crossing	-	-	10.000	10.000
(6) Civil Works	-	-	5.000	5.000
(7) HSE	-	-	5.000	5.000
(8) Survey & Design & Consultancy	-	-	3.000	3.000
(9) Security	-	-	2.000	2.000
(10) Quality Assurance	-	-	23.400	23.400
(11) Camp set up	-	-	25.000	25.000
(12) Overheads	-	-	63.360	63.360
(b)	<u>-</u>	<u>-</u>	<u>656.902</u>	<u>656.902</u>
(a+b)	<u>161.482</u>	<u>38.996</u>	<u>2,020.142</u>	<u>2,220.620</u>
Contingencies (5%)	(c) 8.074	1.950	101.007	111.031
G.Total:	<u>169.556</u>	<u>40.946</u>	<u>2,121.149</u>	<u>2,331.651</u>
<b>Grand Total</b>				<b>2,331.651</b>
<b>Per Km. Cost</b>				<b>48.576</b>

Dollar rate is taken as Rs. 135

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Laying of 24" Dia 48 Km 0.375" /0.312" W.T. Transmission Line

Phool Nagar To Ferozepur Road

Basis of Cost Estimate

Description \_\_\_\_\_

☆ Pipe

24" dia 48 km

117.3 Kg. / Mtr.  
140.68 Kg. / Mtr.

Tonnage
3,909.61
2,131.30
6,041

0.312" x 33 Km.  
.375" x 15 Km.

Price Per Ton

Rs.205'000 / Ton

Wastage

1 % of pipe

Coating Cost

Rs. 2300/ meter

Valves & Fittings

12% of Pipe cost

Joint Coating

1 Km = 100 Joints (Rs. 4572 / Joint)

Cathodic Protection

Rs. 5.000 million

Transportation

Rs. 8 / M.Ton / Km.

Construction Cost

Simple terrain

Rs. 0.220 million / Inch / Km.

Crop Compensation

Rs. 0.350 million / Acre

Freehold Land

48 km 16.5 feet

Rs. 3.65 million / Acre

Way leave

22 feet

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## Budgeted Cost

Laying of 16" Dia 27 Km 0.250" /0.281" W.T. Transmission Line

Ferozpur Road To Barki

(Million Rupees)

Description	F. E.	Duties	Others	Total
(1) <b>Material</b>				
Line pipe	-	-	359.938	359.938
Coating Cost	15.453	3.091	30.542	49.086
Valves & Fittings	41.214	10.304	2.473	53.991
Joint Coating	6.389	1.597	0.384	8.370
Cathodic Protection	1.527	0.382	0.091	2.000
Transportation	-	-	11.316	11.316
(a)	<u>64.583</u>	<u>15.374</u>	<u>404.744</u>	<u>484.701</u>
(2) Construction Cost	-	-	95.040	95.040
(3) Crop Compensation	-	-	26.869	26.869
(4) Freehold Land	-	-	78.369	78.369
(5) Major Crossing	-	-	30.000	30.000
(6) Civil Works	-	-	5.000	5.000
(7) HSE	-	-	2.000	2.000
(8) Survey & Design & Consultancy	-	-	1.000	1.000
(9) Security	-	-	1.000	1.000
(10) Quality Assurance	-	-	10.900	10.900
(11) Camp set up	-	-	-	-
(12) Overheads	-	-	23.760	23.760
(b)	<u>-</u>	<u>-</u>	<u>273.938</u>	<u>273.938</u>
(a+b)	<u>64.583</u>	<u>15.374</u>	<u>678.682</u>	<u>758.639</u>
Contingencies (5 %)	(c) 3.229	0.769	33.934	37.932
G.Total:	<u>67.812</u>	<u>16.143</u>	<u>712.616</u>	<u>796.571</u>
<b>Grand Total</b>				<u>796.571</u>
Per Km. Cost				<u>29.503</u>

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Laying of 16" Dia 27 Km 0.250" /0.281" W.T. Transmission Line

Ferozepur Road To Barki

Basis of Cost Estimate

Description

☆ *Pipe*

<u>16" dia 27 km</u>		<u>Tonnage</u>	
63.13 Kg. / Mtr.		1,402.75	0.250*22 Km.
69.91 Kg. / Mtr.		353.05	.281*5 Km.
		<u>1,756</u>	
	<i>Price Per Ton</i>		<i>Rs. 205,000 / Ton</i>
<i>Wastage</i>			<i>1 % of pipe</i>
<i>Coating Cost</i>			<i>Rs. 1800/ meter</i>
<i>Valves &amp; Fittings</i>			<i>15% of Pipe cost</i>
<i>Joint Coating</i>			<i>1 Km = 100 Joints (Rs. 3100/ Joint)</i>
<i>Cathodic Protection</i>			<i>Rs. 2.000 million</i>
<i>Transportation</i>			<i>Rs. 8 / M.Ton / Km.</i>
<i>Construction Cost</i>		<u>Simple terrain</u>	<i>Rs. 0.220 million / Inch / Km.</i>
<i>Crop Compensation</i>			<i>Rs. 0.40 million / Acre</i>
<i>Freehold Land</i>		<i>27 km 11 feet</i>	<i>Rs. 3.5 million / Acre</i>
<i>Way leave</i>		<i>22 feet</i>	



## Budgeted Cost

Laying of 8" Dia 16 Km 0.250" /0.219" W.T. Transmission Line

Barki To Dial

(Million Rupees)

Description	F. E.	Duties	Others	Total
(1) <b>Material</b>				
Line pipe	-	-	98.508	98.508
Coating Cost	9.248	1.850	1.830	12.928
Valves & Fittings	13.535	3.384	0.812	17.731
Joint Coating	2.082	0.521	0.125	2.728
Cathodic Protection	0.763	0.191	0.046	1.000
Transportation	-	-	3.348	3.348
(a)	<u>25.628</u>	<u>5.946</u>	<u>104.669</u>	<u>136.243</u>
(2) Construction Cost	-	-	28.160	28.160
(3) Crop Compensation	-	-	15.923	15.923
(4) Freehold Land	-	-	65.680	65.680
(5) Major Crossing	-	-	5.000	5.000
(6) Civil Works	-	-	5.000	5.000
(7) HSE	-	-	1.000	1.000
(8) Survey & Design & Consultancy	-	-	1.000	1.000
(9) Security	-	-	1.000	1.000
(10) Quality Assurance	-	-	5.400	5.400
(11) Camp set up	-	-	20.000	20.000
(12) Overheads	-	-	7.040	7.040
(b)	<u>-</u>	<u>-</u>	<u>155.203</u>	<u>155.203</u>
(a+b)	<u>25.628</u>	<u>5.946</u>	<u>259.872</u>	<u>291.446</u>
Contingencies (5 %)	(c) 1.281	0.297	12.994	14.571
G.Total	<u>26.909</u>	<u>6.243</u>	<u>272.866</u>	<u>306.018</u>
<b>Grand Total</b>				<b>306.018</b>
<b>Per Km. Cost</b>				<b>19.126</b>

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174

103

Laying of 8" Dia 16 Km 0.250" /0.219" W.T. Transmission Line

Barki To Dial  
Basis of Cost Estimate

Description

☆ Pipe

8" dia 16 km

29.48 Kg. / Mtr.

33.57 Kg. / Mtr.

Tonnage

446.62

33.91

481

0.219\*15 Km.

.250\*1 Km.

*Price Per Ton*

*Rs.205,000 / Ton*

*Wastage*

*1 % of pipe*

*Coating Cost*

*Rs. 800/meter*

*Valves & Fittings*

*18% of Pipe cost*

*Joint Coating*

*1 Km = 100 Joints (Rs. 1705/ Joint)*

*Cathodic Protection*

*Rs. 1.000 million*

*Transportation*

*Rs. 8 / M.Ton / Km.*

*Construction Cost*

Simple terrain

*Rs. 0.220 million / Inch / Km.*

*Crop Compensation*

*Rs. 0.40 million /Acre*

*Freehold Land*

16 km 11 feet

*Rs. 4.95 million / Acre*

*Way leave*

22 feet

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175  
~~200~~

## Budgeted Cost

Laying of 16" Dia 6.5 Km 0.250" /0.281" W.T. Transmission Line

Manga Mandi To Sunder off take

(Million Rupees)

<u>Description</u>	<u>F. E.</u>	<u>Duties</u>	<u>Others</u>	<u>Total</u>
(1) <u>Material</u>				
Line pipe	-	-	87.068	87.068
Coating Cost	3.757	0.751	7.309	11.817
Valves & Fittings	26.586	6.647	1.594	34.827
Joint Coating	1.538	0.385	0.092	2.015
Cathodic Protection	0.763	0.191	0.046	1.000
Transportation	-	-	2.739	2.739
(a)	<u>32.644</u>	<u>7.974</u>	<u>98.848</u>	<u>139.466</u>
(2) Construction Cost	-	-	22.880	22.880
(3) Crop Compensation	-	-	6.469	6.469
(4) Freehold Land	-	-	26.683	26.683
(5) Major Crossing	-	-	-	-
(6) Civil Works	-	-	3.000	3.000
(7) HSE	-	-	1.000	1.000
(8) Survey & Design & Consultancy	-	-	1.000	1.000
(9) Security	-	-	1.000	1.000
(10) Quality Assurance	-	-	4.500	4.500
(11) Camp set up	-	-	-	-
(12) Overheads	-	-	5.720	5.720
(b)	<u>-</u>	<u>-</u>	<u>72.252</u>	<u>72.252</u>
(a+b)	<u>32.644</u>	<u>7.974</u>	<u>171.100</u>	<u>211.718</u>
Contingencies (5%)	(c) 1.632	0.399	8.555	10.586
G.Total:	<u>34.276</u>	<u>8.373</u>	<u>179.655</u>	<u>222.304</u>
<b>Grand Total</b>				<u>222.304</u>
<b>Per Km. Cost</b>				<u>34.201</u>

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176  
~~176~~

Laying of 16" Dia 6.5 Km 0.250" /0.281" W.T. Transmission Line

Manga Mandi To Sunder off take

Basis of Cost Estimate

Description

☆ Pipe

16" dia 6.5 km

63.13 Kg. / Mtr.

69.91 Kg. / Mtr.

Tonnage

318.81

105.91

425

0.250\*5 Km.

.281\*1.50 Km.

Price Per Ton

Rs.205,000 / Ton

Wastage

1 % of pipe

Coating Cost

Rs. 1800/ meter

Valves & Fittings

40% of Pipe cost

Joint Coating

1 Km = 100 Joints (Rs. 3100 / Joint)

Cathodic Protection

Rs.1.000 million

Transportation

Rs. 8 / M.Ton / Km.

Construction Cost

Simple terrain

Rs. 0.220 million / Inch / Km.

Crop Compensation

Rs. 0.40 million / Acre

Freehold Land

6.5 km 11 feet

Rs. 4.95 million / Acre

Way leave

22 feet

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# SUI NORTHERN GAS PIPELINES LIMITED

GAS HOUSE, 21 KASHMIR ROAD, P.O. BOX 56, LAHORE (PAKISTAN)

177

Reference: RA-TAR-18-19(P)-052

Date: November 12, 2018

**Registrar**  
Oil and Gas Regulatory Authority  
Fazal I Haq Road, Blue Area  
Islamabad.

Dear Sir,

## PETITION FOR REVIEW OF ESTIMATED REVENUE REQUIREMENTS FOR FY 2018-19

We refer to OGRA's letter No. OGRA-9-(491)/2018-RERR-2018-19 dated 09.11.2018 (*Annex-A*), wherein OGRA has directed to include the KMI implementation plan budget for FY 2017-18 and FY 2018-19 in the Motion for Review for FY 2018-19.

In view of the above, the Company has included the revenue and capital cost of KMI implementation Plan in the subjected petition. Accordingly, the segment wise detail of revised shortfall in Review of Estimated Revenue Requirement for FY 2018-19 related to indigenous gas business (including LPG) and LNG business is given as under:

Description	Amount (Rs. in million)
Indigenous gas business (Including LPG)	91,632
Cost of Supply of LNG business	30,475

Revised petition is enclosed.

With best regards.

Yours faithfully,  
Sui Northern Gas Pipelines Ltd

(LIAQAT ALI)  
Chief Officer (RA)  
for Managing Director

Encl: As Above



PETITION FOR REVIEW OF  
ESTIMATED REVENUE  
REQUIREMENT  
FOR FY 2018-19



SUI NORTHERN GAS PIPELINES LIMITED  
PETITION FOR REVIEW OF ESTIMATED REVENUE REQUIREMENT  
FOR FY 2018-19

<ul style="list-style-type: none"><li>• Form under Rule 4 of the Natural Gas Tariff Rules 2002</li><li>• Tariff Sheet &amp; Prescribed Prices Schedule</li></ul>	<b>1</b>
<ul style="list-style-type: none"><li>• Regulatory Asset Base Calculations</li></ul>	<b>2</b>
<ul style="list-style-type: none"><li>• Annexures</li><li>• Power of Attorney</li></ul>	<b>3</b>

***SUI NORTHERN GAS PIPELINES LIMITED***  
***Review of Estimated Revenue Requirements under***  
***section 8(2) of OGRA Ordinance 2002.***  
***For Financial Year 2018-19***

## Schedule I of Tariff Rules 2002

APPLICATION FORM	
Reference number	Date November 12, 2018
Company Profile	
1. Name of the Petitioner	
<ul style="list-style-type: none"> <li>Sui Northern Gas Pipelines Limited</li> </ul>	
2. Full address of the Petitioner	
<ul style="list-style-type: none"> <li>21, Kashmir Road, Lahore 54000</li> </ul>	
3. The grounds giving rise to the Petitioner's interest forming the basis of the Petition	
<ul style="list-style-type: none"> <li>Petition for Review of Estimated Revenue Requirement FY 2018-19</li> </ul>	
4. Number and details of the License	
<ul style="list-style-type: none"> <li>License number NG 002/2003</li> </ul>	
<b>Transmission of Natural Gas</b>	
<ul style="list-style-type: none"> <li>i. Construction and operation of pipelines for the purpose of transmission of natural gas; and,</li> <li>ii. Transmission of natural gas through transmission system of the Licensee</li> </ul>	
<b>Distribution and Sale of Natural Gas</b>	
<ul style="list-style-type: none"> <li>i. Construction and operation of pipelines for the purpose of distribution and sale of natural gas throughout the territories of Province of Punjab, North West Frontier Province (NWFP), Federal Capital, Federally Administered Tribal Area (FATA), Azad Jammu and Kashmir (AJK) and those areas of Province of Sindh where the Licensee operates natural gas distribution system prior to the date of issuance of the License and ;</li> <li>ii. Distribution and sale of natural gas through the distribution system of the Licensee within its authorized area, with an exclusive right till 30<sup>th</sup> June 2010 to distribute and sell natural gas to its existing consumers and such consumers as are connected to its distribution system on or before 30<sup>th</sup> June 2005.</li> </ul>	

5 State, in concise manner, the grounds and facts forming the basis of the Petition and the relief or determination sought from the Authority.

- KMIs Implementation Plan.

Based on the above and other related factors, there is a shortfall of Rs. 91,632 million for normal business (including LPG) and a shortfall of Rs. 30,475 million in Cost of supply of LNG business.

6. Summary of evidence giving brief particulars of the data, facts and evidence in support of the Petition.

- Statement showing Revenue Requirement calculation is attached.

7. Other Petitions filed by the Authority at the time of the filing of this Petition and which directly and significantly of any material effect the grant and denial of those Petitions will have on those other Petition.

- Review Petition against Motion for Review of FRR FY 2016-17
- Petition for Final Revenue Requirement FY 2017-18
- Motion for Review against DERR FY 2018-19

8. Petition to be accompanied by details of the following market data

- Number and consumption details of consumers likely to be affected by the Petition
- If the Petitioner is a licensee, an estimate of the volume of natural gas to be transmitted, distributed and sold.
- The Petitioner's total annual peak day natural gas requirement; and
- The Petitioner's forecast of yearly capital expenditure for four years including year under review

November 12, 2018

  
(LIAQAT ALI)  
Chief Officer (RA)  
for Managing Director

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### Forecast of Yearly Capital Expenditure

Rupees in million

	2018-19	2019-20	2020-21	2021-22	2022-23
LAND FREEHOLD	4	35	35	35	35
BUILDING ON FREEHOLD LAND	185	100	100	100	100
TRANSMISSION MAINS	4,326	122,493	14,000	14,000	14,000
DISTRIBUTION MAINS	17,414	11,138	12,987	14,935	17,325
COMPRESSORS STATION EQUIP.	423	365	473	473	473
TELECOMMUNICATION EQUIPMENT	42	15	15	15	15
PLANT AND MACHINERY	405	700	900	900	1100
MEASURING AND REGULATING	7,438	9,268	9,268	9,268	9,268
TOOLS AND EQUIPMENT	27	250	250	250	250
MOTOR VEHICLES	193	300	300	300	300
CONSTRUCTION EQUIPMENT	238	200	200	200	200
FURNITURE & FIXTURES	75	50	50	50	50
OFFICE EQUIPMENTS	28	50	50	50	50
COMPUTER HARDWARE	346	200	200	200	200
COMPUTER SOFTWARE SYSTEM	0	100	100	100	100
UPGRADATION OF CC&B PROJECT	32				
SCADA SYSTEM	-	-	-	-	-
CARRY FORWARD PROJECTS	0	-	-	-	-
PRINCIPALLY APPROVED PROJECTS	36,606				
REVIEW OF ERR 2018-19	17,180				
<b>Total</b>	<b>84,962</b>	<b>145,264</b>	<b>38,928</b>	<b>40,876</b>	<b>43,466</b>

### New Consumers

Connections		Total
Industrial	No.	300
Commercial	No.	3,000
Domestic	No.	600,000
	<b>No.</b>	<b>603,300</b>

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## AFFIDAVIT

I hereby certify and declare that the information given in the Review of Estimated Revenue Requirements FY 2018-19 is correct and complete in all respects to the best of my knowledge.

Sui Northern Gas Pipelines Ltd

  
**(LIAQAT ALI)**  
**Chief Officer (RA)**  
*for Managing Director*

**Date: November 12, 2018**

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**SUI NORTHERN GAS PIPELINES LIMITED**  
**TARIFF CALCULATION SHEET**  
**Petition for Review of Estimated Revenue Requirements**  
**For Financial Year 2018-19**

Particulars	Petition Related to Normal Consumers	Petition Related to LPG Air Mx	Total	Petition Related to LNG Consumers
<b>1 Gas Sales</b>				
1A Sales Volume	MMCF	435,187	48	435,235
1B Sales Volume	BBTU	424,371	61	424,432
1C Calorific Value	BTU	975.15	1,270.83	975.18
	<i>Rupees in million</i>		<i>Rupees in million</i>	<i>Rupees in million</i>
<b>2 Net Operating Revenue</b>				
Sales at Sale Price		217,351	37	217,368
Rental and Service Charges		2,135	-	2,135
Surcharge & Interest on Gas Sales Arrears (LPS)		4,719	-	4,719
Amortization of Deferred Credit		3,152	-	3,152
Other Operating Income		2,200	-	2,200
<b>2A Total Income</b>		<b>229,557</b>	<b>37</b>	<b>229,594</b>
<b>Less: Expenses</b>				
Cost of Gas/RLNG Sold		220,623	125	220,748
UFG disallowance		(9,974)	-	(9,974)
Operating Cost as per DERR FY 2018-19		8,616	-	8,616
Operating Cost of New Regions/CSC/CC		1,078	-	1,078
HR Cost (Net off Capital Allocation)		19,708	-	19,708
HR Cost of New Regions/CSC/CC		1,317	-	1,317
Gas Internally Consumed		1,565	-	1,565
Depreciation		21,272	70	21,342
Late Payment Surcharge (Payable)		1,638	-	1,638
Corporate Social Responsibility (CSR)		496	-	496
Operating Cost for upgradation of CC&B		15	-	15
Finance cost for Working capital		225	-	225
Interest Expense on LNG Loan		-	-	-
Transportation Charges payable to SSGC		-	-	-
WPPF		1,138	-	1,138
Foreign Training of BOD and Senior Management		14	-	14
Operating Cost Technical Audit		30	-	30
Insurance (loss of Profit)		115	-	115
Operating cost of Demonstration Project for Gasification		4	-	4
KMI Implementation Plan (FY 2017-18 & FY 2018-19)		1,251	-	1,251
<b>2B Total Expenses</b>		<b>269,131</b>	<b>195</b>	<b>269,326</b>
<b>2C Return obtainable (2A - 2B)</b>		<b>(39,574)</b>	<b>(158)</b>	<b>(39,732)</b>
<b>3 Required Return on Net Fixed Assets</b>				
Net Operating Fixed Assets at Beginning		147,958	-	147,958
Net Operating Fixed Assets at End		181,180	1,192	182,372
<b>3A AVERAGE NET ASSETS</b>		<b>149,569</b>	<b>596</b>	<b>150,165</b>
Deferred Credit Opening		20,586	-	20,586
Deferred Credit Closing		20,934	-	20,934
<b>3B AVERAGE DEFERRED CREDIT</b>		<b>20,760</b>	<b>-</b>	<b>20,760</b>
<b>3C Average Net Operating Fixed Assets (3A - 3B)</b>		<b>128,809</b>	<b>596</b>	<b>129,405</b>
<b>3D Required Return on Net Assets - In Percentage</b>		<b>17.43%</b>	<b>17.43%</b>	<b>17.43%</b>
<b>3E Required Return (3C x 3D)</b>		<b>22,451</b>	<b>104</b>	<b>22,555</b>
<b>4 (Surplus) / Shortfall for FY 2018-19</b>		<b>62,026</b>	<b>262</b>	<b>62,288</b>
<i>Increase/(decrease) in Prices for FY 2018-19 (without shortfall pertains to previous years)</i>		<i>146.16</i>	<i>4,295.41</i>	<i>146.76</i>
4(a) Cumulative Previous Years Shortfall (staggered over 04 years)		29,344	-	29,344
4(c) Cumulative (Surplus)/ Shortfall		91,370	262	91,632
<b>5 Total Increase / (decrease) in prices</b> <i>(Including shortfall pertains to previous years) effective 1st July 2018</i>		<b>215.31</b>	<b>4,295.41</b>	<b>215.89</b>
	<b>Rupees Per MMBTU</b>	<b>215.31</b>	<b>4,295.41</b>	<b>215.89</b>
Cost of Supply of RLNG already determined by OGRA (Rupees Per MMBTU)				61.30
Increase required in Cost of Supply w.e.f. 1st July 2018 (Rupees Per MMBTU)				42.17

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**Existing and Suggested Prescribed Prices as per  
Rule 4(4)b**

		<i>Average Prescribed Prices Rupees per MMBTU</i>	<i>Revised Average Prescribed Prices Rupees per MMBTU w.e.f 01.07.2018</i>
<b>1</b>	<b>Domestic consumers</b>		
<b>A</b>	<b><u>STAND ALONE METERS</u></b>		
<b>B</b>	<b><u>mosques, churches, temples, madrassas, other religious places and hostels attached thereto</u></b>		
	<i>Upto 100 Cubic Meters Per Month- All Offtakes at the rate of</i>	455.21	671.10
	<i>Upto 300 Cubic Meters per Month- All Offtakes at the rate of</i>	455.21	671.10
	<i>Over 300 Cubic Meters Per Month- All Offtakes at the rate of</i>	455.21	671.10
<b>B</b>	<i>Government and semi-Government offices, hospitals, Clinics, Maternity Homes, Government guest houses, Armed Forces messes and langars, universities, colleges, schools, private educational institutions, orphanages and other charitable institutions along with Hostels and Residential Colonies to whom Gas is supplied through bulk meters including captive power</i>		
	<i>All off-takes at flat rate of</i>	455.21	671.10
<b>2</b>	<b><u>COMMERCIAL CONSUMERS</u></b>		
	<i>All establishments registered as commercial units with local authorities or dealing in consumer items for direct commercial sale like cafes, milk shops, tea stalls, canteens barber shops, laundries, tandours, places of entertainment like cinemas, clubs and theaters, private offices, corporate homes etc.</i>		
	<i>All off-takes at flat rate of</i>	455.21	671.10
<b>3</b>	<b><u>Special Commercial Consumer (Roti Tandoor)</u></b>		
<b>(a)</b>	<b><u>Upto 300 M<sup>2</sup> per month</u></b>		
	<i>Upto 100 Cubic Meters Per Month- All Offtakes at the rate of</i>	455.21	671.10
	<i>Upto 300 Cubic Meters per Month- All Offtakes at the rate of</i>	455.21	671.10
	<i>Over 300 Cubic Meters Per Month- All Offtakes at the rate of</i>	455.21	671.10
<b>4</b>	<b><u>Ice Factories</u></b>		
	<i>All off-takes at flat rate of</i>	455.21	671.10
<b>5</b>	<b><u>General Industrial consumers</u></b>		
	<i>All consumers engaged in the processing of industrial raw material into value added finished products irrespective of the volume of gas consumed including hotel industry but excluding such industries for which a separate rate has been prescribed</i>		
	<i>All off-takes at flat rate of</i>	455.21	671.10
<b>6</b>	<b><u>CNG Stations</u></b>		
	<i>All off-takes at flat rate of</i>	455.21	671.10

**Existing and Suggested Prescribed Prices as per  
Rule 4(4)b**

	<i>Average Prescribed Prices Rupees per MMBTU</i>	<i>Revised Average Prescribed Prices Rupees per MMBTU w.e.f 01.07.2018</i>
<b>7</b>	<b><u>Cement Factories</u></b>	
	<i>All off-takes at flat rate of</i>	
	455.21	671.10
<b>8</b>	<b><u>Fertilizer Factories</u></b>	
	<b>(a) Pak-American Fertilizer Limited, Daudkhel</b>	
	<i>All off takes at flat rate of</i>	
	455.21	671.10
	<b>(b) Pak-Arab Fertilizer Limited, Multan</b>	
	<i>All off takes at flat rate of</i>	
	455.21	671.10
	<b>(c) Dawood Hercules Chemicals Limited, Chichoki Malain, Sheikhpura District</b>	
	<i>All off takes at flat rate of</i>	
	455.21	671.10
	<b>(d) Pak-China Fertilizer Limited/ Hazara Phosphate Plant Limited, Haripur</b>	
	<i>All off takes at flat rate of</i>	
	455.21	671.10
	<b>(d) Engro Fertilizer Company Limited</b>	
	<i>All off takes at flat rate of</i>	
	455.21	671.10
<b>9</b>	<b><u>POWER STATIONS</u></b>	
	<b>(a) WAPDA's Power Stations and other electricity utility companies excluding WAPDA's Natural Gas Turbine Station, Nishatabad, Faisalabad</b>	
	<i>All off takes at flat rate of</i>	
	455.21	671.10
	<b>(b) WAPDA's Natural Gas Turbine Station, Nishatabad, Faisalabad</b>	
	<i>All off takes at flat rate of</i>	
	455.21	671.10
	<i>Fixed Charge (Rupee per month)</i>	
	390,000.00	390,000
	<b>(c) Liberty Power Limited</b>	
	<i>All off takes at flat rate of</i>	
	455.21	671.10
<b>10</b>	<b><u>Captive Power</u></b>	
	<i>All off-takes at flat rate of</i>	
	455.21	671.10
<b>11</b>	<b><u>Independent Power Projects</u></b>	
	<i>All off-takes at flat rate of</i>	
	455.21	671.10

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**SUI NORTHERN GAS PIPELINES LIMITED**  
**SCHEDULE OF OPERATING FIXED ASSETS (TOTAL) FOR THE YEAR ENDED 30TH JUNE, 2019**  
 Based on opening balances as per RERR, FY 2017-18

Description	Rupees In million												
	Balance as on 01-07-2018	ADDITION	ADDITION (C/F)	Cost Motions for Review 17-18 / Principally Approved	RERR	Total Additions	Balance as on 30-06-2019	Balance as on 01-07-2018	On Opening Balance	On Addition during the year	Balance as on 30-06-2019	Book Value of Assets as on 30-06-2019	Depreciation Rate % age
LAND FREEHOLD	1,890	4	-	-	-	4	1,894	-	-	-	1,894	1,894	0
LAND LEASEHOLD	0	-	-	-	-	0	0	-	-	-	0	0	0
BUILDING ON FREEHOLD LAND	2,305	185	-	-	321	506	2,811	1,299	138	15	1,452	1,359	6
BUILDING ON LEASEHOLD LAND	8	-	-	-	-	-	8	8	-	-	8	-	6
TRANSMISSION MAINS	114,384	4,326	-	-	8,007	12,333	126,718	47,257	6,863	370	54,490	72,228	6
DISTRIBUTION MAINS	101,799	17,414	-	26,762	1,638	45,814	147,613	43,222	6,108	1,374	50,704	96,909	6
COMPRESSORS STATION EQUIP	15,477	423	-	-	-	423	15,900	7,902	929	13	8,844	7,057	6
TELECOMMUNICATION EQUIPMENT	2,362	42	-	-	-	42	2,404	2,030	142	1	2,173	231	6
PLANT AND MACHINERY	4,345	405	-	161	205	771	5,116	2,562	869	77	3,508	1,608	20
MEASURING AND REGULATING TOOLS AND EQUIPMENT	50,935	7,438	-	9,683	6,246	23,367	74,322	24,491	5,095	1,168	30,755	43,567	10
MOTOR VEHICLES	451	27	-	-	20	47	497	353	98	8	459	39	33
CONSTRUCTION EQUIPMENT	2,894	193	-	-	316	509	3,403	2,460	373	64	2,896	508	25
FURNITURE & FIXTURES	8,432	238	-	-	5	243	8,675	6,155	989	24	7,168	1,506	20
OFFICE EQUIPMENTS	694	75	-	-	138	213	907	430	104	16	550	357	15
COMPUTER HARDWARE	1,74	28	-	-	12	40	214	137	35	4	176	38	20
COMPUTER SYSTEM SOFTWARE	1,900	346	-	-	271	617	2,517	1,375	426	90	1,891	626	15-33
SCADA SYSTEMS	2,107	-	-	-	-	-	2,107	673	316	-	990	-	33
<b>TOTAL</b>	<b>310,178</b>	<b>31,144</b>	<b>-</b>	<b>36,606</b>	<b>17,180</b>	<b>84,930</b>	<b>395,109</b>	<b>140,353</b>	<b>22,485</b>	<b>3,225</b>	<b>166,063</b>	<b>229,046</b>	<b>-</b>
Intangible Assets	679	32	-	-	-	-	711	636	36	5	678	33	-
Advances for Land	-	-	-	-	-	-	-	-	-	-	-	-	-
-Normal Assets	450	-	-	-	-	-	450	-	-	-	-	450	-

Operating Assets	170,318
Closing Assets	229,528
Depreciation	25,752

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**SUI NORTHERN GAS PIPELINES LIMITED**  
**SCHEDULE OF OPERATING FIXED ASSETS (NORMAL) FOR THE YEAR ENDED 30TH JUNE 2019**  
*Based on opening balances as per RRR, FY 2017-18*

Description	Cost				Accumulated Depreciations				Book Value of Assets as on 30-06-2019	Depreciation Rate % age		
	Balance as on 01-07-2018	ADDITION	ADDITION (C/F)	Motion for Review 17-18 / Principally Approved	RER Assets	Total Additions	Balance as on 30-06-2019	Balance as on 01-07-2018			On Operating Balance	On Addition during the year
LAND FREEHOLD	1,829	4	-	-	-	4	1,833	-	-	-	1,833	0
LAND LEASEHOLD	0	-	-	-	-	-	0	-	-	-	0	0
BUILDING ON FREEHOLD LAND	2,305	185	-	-	321	506	2,811	1,299	138	15	1,359	6
BUILDING ON LEASEHOLD LAND	8	-	-	-	-	-	8	-	-	-	-	6
TRANSMISSION MAINS	65,640	4,326	-	-	8,007	12,333	77,773	43,743	3,926	370	48,040	6
DISTRIBUTION MAINS	101,799	17,414	-	26,762	1,638	45,814	147,613	43,222	6,108	1,374	50,704	6
COMPRESSORS STATION EQUIP	11,798	423	-	-	-	423	12,221	7,543	708	13	8,264	6
TELECOMMUNICATION EQUIPMENT	2,351	42	-	-	-	42	2,393	2,028	141	1	2,170	6
PLANT AND MACHINERY	3,210	492	-	161	205	771	3,981	2,395	642	77	3,114	20
MEASURING AND REGULATING TOOLS AND EQUIPMENT	50,955	7,438	-	9,683	5,778	22,899	73,854	24,491	5,095	1,145	30,732	10
MOTOR VEHICLES	2,149	193	-	-	316	47	488	345	96	8	449	33
CONSTRUCTION EQUIPMENT	4,209	238	-	-	5	509	2,638	1,962	186	64	2,212	25
FURNITURE & FIXTURES	471	75	-	-	5	243	4,452	4,064	145	24	4,233	20
OFFICE EQUIPMENTS	167	28	-	-	138	213	684	323	71	16	410	15
COMPUTER HARDWARE	1,888	346	-	-	12	40	2,07	134	33	4	171	36
COMPUTER SYSTEM SOFTWARE	-	-	-	-	271	617	2,505	1,368	422	90	1,880	15-33
SCADA SYSTEMS	2,107	-	-	-	-	-	2,107	673	316	-	990	33
<b>TOTAL</b>	<b>251,129</b>	<b>31,144</b>	<b>-</b>	<b>36,606</b>	<b>16,712</b>	<b>84,462</b>	<b>335,591</b>	<b>133,599</b>	<b>18,028</b>	<b>3,202</b>	<b>154,829</b>	<b>-</b>
Intangible Assets	679	32	-	-	-	-	711	636	36	5	678	33
Advances for Land	-	-	-	-	-	-	-	-	-	-	-	-
Normal Assets	386	-	-	-	-	-	386	-	-	-	-	386

Opening Assets	117,958
Closing Assets	181,180
Depreciation	21,272

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**SUI NORTHERN GAS PIPELINES LIMITED**  
**SCHEDULE OF OPERATING FIXED ASSETS (RLNG) FOR THE YEAR ENDED 30TH JUNE-2019**  
*Based on opening balances as per petition for RFR, FY 2017-18*

Description	Cost				Accumulated Depreciation			Book Value of Assets as on 30-06-2019	Depreciation Rate % age	
	Balance as on 01-07-2018	ADDITION (C/F)	Principally Approved	RFR Assets	Total Additions	Balance as on 30-06-2019	On Opening Balance			On Addition during the year
LAND FREEHOLD	60	-	-	-	-	60	-	-	60	-
LAND LEASEHOLD	-	-	-	-	-	-	-	-	-	-
BUILDING ON FREEHOLD LAND	-	-	-	-	-	-	-	-	-	6
BUILDING ON LEASEHOLD LAND	-	-	-	-	-	-	-	-	-	6
TRANSMISSION MANS	48,945	-	-	-	-	48,945	2,937	-	42,494	6
DISTRIBUTION MANS	-	-	-	-	-	-	-	-	6,450	6
COMPRESSORS STATION EQUIP	3,679	-	-	-	-	3,679	221	-	3,100	6
TELECOMMUNICATION EQUIPMENT	11	-	-	-	-	11	1	-	3	9
PLANT AND MACHINERY	1,134	-	-	-	-	1,134	227	-	394	20
MEASURING AND REGULATING TOOLS AND EQUIPMENT	10	-	-	468	468	468	-	23	23	10
MOTOR VEHICLES	745	-	-	-	-	745	2	-	10	33
CONSTRUCTION EQUIPMENT	4,223	-	-	-	-	4,223	186	-	683	25
FURNITURE & FIXTURES	223	-	-	-	-	2,091	845	-	2,935	20
OFFICE EQUIPMENTS	7	-	-	-	-	223	33	-	140	15
COMPUTER HARDWARE	11	-	-	-	-	7	1	-	4	20
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	11	4	-	11	1
SCADA SYSTEMS	-	-	-	-	-	-	-	-	-	33
	-	-	-	-	-	-	-	-	-	15
<b>TOTAL.</b>	<b>59,650</b>	<b>-</b>	<b>-</b>	<b>468</b>	<b>468</b>	<b>59,518</b>	<b>4,457</b>	<b>23</b>	<b>11,234</b>	<b>48,283</b>

Advances for Land	64	-	-	-	-	64	-	-	-	64
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Opening Assets	52,360
Closing Assets	48,348
Depreciation	4,480

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**SUI NORTHERN GAS PIPELINES LIMITED**  
**SCHEDULE OF OPERATING FIXED ASSETS (LPG Air Mix) FOR THE YEAR ENDED 30TH JUNE-2019**  
 Based on opening balances as per RRR, FY 2017-18

Rupees in million

Description	Cost			Accumulated Depreciation			Book Value of Assets as on 06-2019	Depreciation Rate % age	
	Balance as on 01-07-2018	ADDITION	ADDITION (C/F)	Motion for Review 17-18 / Principally Approved	Total Addition	Balance as on 30-06-2019			On Addition during the year
LAND FREEHOLD		4						4	0
LAND LEASEHOLD									0
BUILDING ON FREEHOLD LAND									6
BUILDING ON LEASEHOLD LAND									6
TRANSMISSION MAINS									6
DISTRIBUTION MAINS		800						24	6
COMPRESSORS STATION EQUIP									6
TELECOMMUNICATION EQUIPMENT									6
PLANT AND MACHINERY		444						44	20
MEASURING AND REGULATING									10
TOOLS AND EQUIPMENT									33
MOTOR VEHICLES		14						2	25
CONSTRUCTION EQUIPMENT									20
FURNITURE & FIXTURES									15
OFFICE EQUIPMENTS									20
COMPUTER HARDWARE									15-33
COMPUTER SYSTEM SOFTWARE									33
SCADA SYSTEMS									15
<b>TOTAL</b>	-	1,262	-	-	-	1,262	70	70	1,192
Intangible Assets									
Advances for Land									
-Normal Assets									

Opening Assets	-
Closing Assets	1,192
Depreciation	70

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Oil & Gas  
Regulatory Authority



Through Fax/Courier

OGRA-9-(491)/2018-RERR-2018-19  
November 09, 2018

General Manager (RA)  
Sui Northern Gas Pipelines Limited,  
Gas House, 21 - Kashmir Road,  
Lahore

Subject: KMIs IMPEMENTATION PLAN

Please refer to your letter No. RA-UFG -012-18 dated 20-08-2018 on the above subject and to say that the Para-2 of the said letter may please be made part of the Motion for Reiw for FY 2018-19 for consideration and decision by the Authority please.

*Imran Aslam*  
Imran Aslam  
Deputy Executive Director (Gas)

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54-B, Fazlul Haq Road, Blue Area, Islamabad. PABX: +92 51 9244090-98, Fax: +92 51 9244310  
54-B فضل الحق روڈ، بلیو ایریا، اسلام آباد فون: +92 51 9244090-98 فیکس: +92 51 9244310



Ref: RA-UFG-012-18

Date: August 20, 2018

Registrar,  
Oil and Gas Regulatory Authority,  
54-Old ZTE Plaza, Fazal-e- Haq Road  
Near PIA Building, Blue Area,  
Islamabad.

Thru: Fax / Courier

Subject: KMIS IMPLEMENTATION PLAN

Dear Sir,  
السلام عليكم

This refers to letter No. OGRA-9(472)/2018 dated 09-07-2018 on the above cited subject. In this respect our response is as under:

1. **Confirm that the areas where three (03) pilot projects are to be intimated are high UFG prone areas with reference to UFG percentage in different regions:**

With reference to KMI No. 2, the company has already submitted its detail stance in writing as well as during *Stake Holders Awareness Session* arranged by OGRA on UFG benchmark followed by series of meetings with OGRA officials whereby it was discussed at length that segmentation of network and installation of check meters for reconciliation will not contribute in UFG reduction, despite incurring huge expenditures. The following issues were highlighted in particular:

- Extreme looping of distribution network as network is undersized and there is supply & demand gap of indigenous gas.
- Network isolation requires laying of larger diameter lines, requiring permission from the relevant outside agencies for road cut/ditching for laying of network.
- Land acquisition for installation of measurement facility at TBSs/DRSs as the existing design requires extensive modification at sites.
- Space constraints at sites, as majority of the TBSs/DRSs are installed at Conner of streets and alongside busy roads whereas no additional space can be acquired as it will create hindrance in traffic flow.
- The pressure variation through 24 hours operation will results in damage to meter internal parts installed at TBSs/DRSs, resulting in financial loss inviting audit observations.
- Owing to supply & demand gap of indigenous gas, the TBSs are operated in 'by-pass' mode at the time of peak load due to which the reconciliation of gas cannot be carried out.



The company was of the view that the KMIs related to segmentation and installation of check meters should altogether be deleted. However, the company has prepared the proposal regarding the three Pilot Projects purely to comply with directions of OGRA and to secure marks against the said KMI. **Areas have been selected in different regions under the Pilot Project keeping in view the do-ability factor.**

It is further apprised that the areas selected under the Pilot Project are not the major contributor in regional losses as the areas which mainly contribute in the regional losses are the cities where there is extreme looping of gas network to ensure uninterrupted gas supplies to the consumers. The execution of this KMIs in these city areas is not practicable due to the reasons stated above and intimated in detail to OGRA through our earlier correspondences pertaining to UFG Study Report.

2. **Ensure that budget requested for implementation of KMIs may not overlap the budget already allowed in respective DERR and RERR as this duplication may lead to double treatment:**

The KMIs notified by OGRA through letter No. OGRA-9(472)/2018 dated 28-02-2018 also cover certain UFG control activities against which OGRA allows Revenue and Capital budget annually through DERR. In line with the DERR 2017-18, the KMIs are applicable from FY 2017-18 onwards.

We understand that budget for two different heads i.e. routine budget and special budget under KMI Implementation Plan is not required for the same nature UFG control activities i.e. the UFG control activities which are common with KMIs.

In view of above, we have identified the UFG control activities against which routine budget was approved by OGRA through DERR FY 2017-18 and FY 2018-19 which are overlapping with the similar nature activities given in KMIs. Summary is as under:

*All figures in Rs. Millions*

Description		1 <sup>st</sup> Year (FY 2017-18)		2 <sup>nd</sup> Year (FY 2018-19)	
		Revenue	Capital	Revenue	Capital
Total Budget approved by OGRA pertaining to UFG control activities	A	616.00	780.00	708.00	503.00
Budget already approved by OGRA pertaining to UFG control activities which are common with KMIs (KMI No. 4, 5, 14, 15, 21 & 22)	B	555.00	437.64	638.00	428.39
Total budget required under the KMI Implementation Plan	C	1166.26	1426.5	1277.99	570.39
Balance budget required under KMI Implementation Plan, after excluding already approved through DERR	D=C-B	611.26	988.82	639.99	142.00



# SUI NORTHERN GAS PIPELINES LIMITED

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*It may be noted that capital budget required for underground network replacement against System Rehabilitation Program (i.e. KMI No. 13), Cathodic Protection System (i.e. KMI No. 16) and procurement of meters (i.e. KMI No. 6 to 12) has not been requested under the KMI Implementation Plan as the same will be obtained through routine capital budget in ERR of respective Year.*

**Based on above, the balance Revenue and Capital budget pertaining to FY 2017-18 and FY 2018-19 required under the KMI Implementation Plan, as summarized above and details are attached as Annex-1.**

It is to mention here that approval of total budget related to the material component against the KMI Implementation Plan (attached as Annex-2) will be required from OGRA at the time of principle approval of the said KMI Implementation Plan so as to initiate material procurement accordingly.

Thanking You:

Yours Sincerely,  
Sui Northern Gas Pipelines Ltd

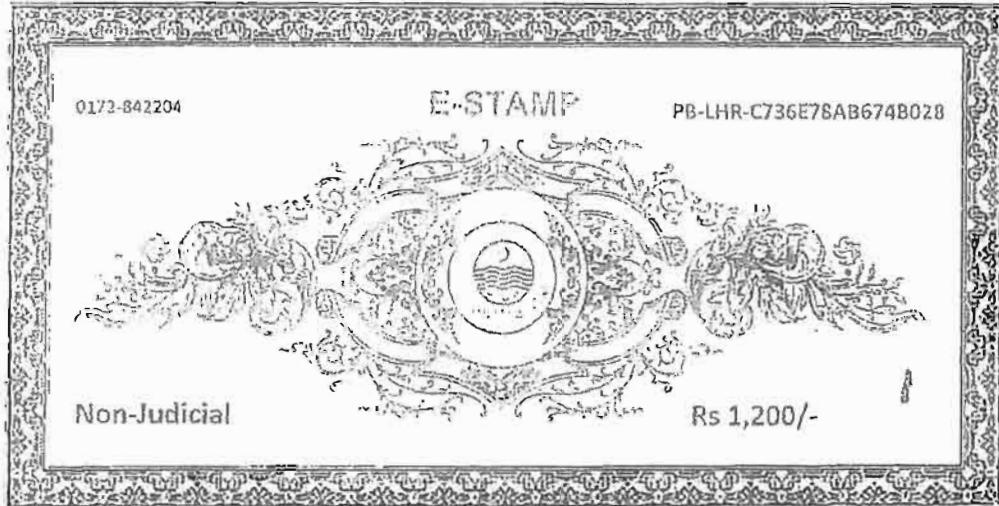
  
(LIAQAT ALI)  
Chief Officer (RA)  
for Managing Director

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638289



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Description	: POWER OF ATTORNEY - 4B(bb)(a)
First Party / Principal	: SOT NORTHERN GAS PIPE LINES LTD (36302-0431766-5)
Second Party / Attorney Holder	: CH LIAQAT ALI (34101-2616650-9)
Agent	: H RAFIQUE GUJAR (35202-2494274-7)
Stamp Duty Paid by	: CH LIAQAT ALI (34101-2616650-9)
Issue Date	: 22-Feb-2017, 01:02:32 PM
Paid Through Challan	: 2017AB16E4C9905E
Amount in Words	: One Thousand Two Hundred Rupees Only

Please Write Below This Line

### GENERAL POWER OF ATTORNEY

By this Deed of Attorney given on 27<sup>th</sup> day of APRIL 2017, SUI NORTHERN GAS PIPELINES LIMITED, incorporated under the Companies Act, 1913 (now the Companies Ordinance, 1984) and having its registered office at Gas House, 21-Kashmir Road, Lahore (hereinafter called "THE COMPANY") through its Managing Director do hereby appoint Ch. Liaqat Ali, Chief Officer, (Regulatory Affairs) Sui Northern Gas Pipelines Limited (hereinafter called "THE ATTORNEY") its true and lawful Attorney to represent the Company and on behalf of the Company to do or execute all or any of the acts and things hereinafter mentioned that is to say:

1. To represent the Company in all proceedings before the Oil and Gas Regulatory Authority ("OGRA") and / or other regulatory authorities including Director General (Gas), Ministry of Petroleum & Natural Resources, Government of Pakistan.
2. To file and appear in proceedings, sign application, petitions and other documents that may be required to defend the Company petitions(s) for its revenue requirement, tariff, licensing and any other ancillary matters.
3. To sign and file interventions, requests, comments, affidavits, furnish undertakings and /or any other documents that may be required in any matter before OGRA.
4. To appoint Advocates and give them due authority to act and conduct the cases and appear in all proceedings to defend the Company before OGRA and / or any other regulatory authority including Director General (Gas), Ministry of Petroleum & Natural Resources, Government of Pakistan.

\_\_\_\_\_  
 MANAGING DIRECTOR  
 CNIC No.

\_\_\_\_\_  
 DIRECTOR  
 CNIC No.



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E-STAMP  
CONTINUATION SHEET

All legal acts done by the said attorneys in furtherance of the Company proceedings before OGRA, before execution of this power of Attorney, are hereby ratified and deemed to have been done under lawful authority.

IN WITNESS WHEREOF the common Seal of the Company was hereunto affixed on the 17<sup>th</sup> day of APRIL 2017 at Lahore.

MANAGING DIRECTOR  
CNIC No.

The common seal of  
Sui Northern Gas Pipelines Limited  
was hereunto affixed in the  
Presence of:

DIRECTOR  
CNIC No.

WITNESSES:

M. Ikram Al'zal  
Exec. Law Officer  
Sui Northern Gas Pipelines Limited  
21-Kashmir Road, Lahore.  
CNIC No. 31303-5170971-9

Muhammad Tahir Rashid  
Law Officer  
Sui Northern Gas Pipelines Limited  
21-Kashmir Road, Lahore.  
CNIC No. 35202-2793098-3

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