SUI NORTHERN GAS PIPELINES LIMITED
GASHOUSE, 21-KASHMIR ROAD, P.O. BOX 56, LAHORE (PAKISTAN)

Ref: RA-TPA-004-21

Date: February 19, 2021

Part- II

Registrar,
Oil and Gas Regulatory Authority,
Fazal -e- Haq Road, ZTE Plaza,
Blue Area,
Islamabad.

Dear Sir,

Subject: Petition for Determination of Transportation Tariff of Transmission & Distribution System, FY 2020-21, in line with Rule 2(1)(ee), Rule 3(3), Schedule-I of TPA Rules and worked Examples in Article 25.6(a) And 25.6(b) of Pakistan Gas Network Code

Please refer to OGRA's letter No. OGRA-10-3(5)/2021 dated January 20, 2021 and February 18, 2021 on the captioned subject wherein it has been directed to submit the *certificate duly signed by Managing Director confirming that assets & T&D costs have been prudently segregated into Transmission & Distribution network categories and also in accordance with the decision of the Authority taken from time to time.*

In this regard, as per direction of the Head (Finance-I), we are in process of revision of:

- Transportation tariff petition for FY 2020-21in accordance with the Determination of Review of Estimated Revenue Requirement (RERR) FY 2020-21 dated February 10, 2021;
- Petition of Estimated Revenue Requirement FY 2021-22 segregated in Transmission, Distribution and Sales function.

As all the above information/data of the above mentioned petitions are interdependent, we may be able to provide the above mentioned certificate after finalizing the same.

Further to the above, it is also pertinent to mention here that the Authority has fixed the hearing of Petition of Final Revenue Requirement (FRR) for FY 2019-20 on February 26, 2021 and our team will also be engaged in preparation of the same.

Foregoing to the above it is requested to kindly accord extension for submission following revised petitions till March 10, 2021, which will also include the certificate mentioned above:

- Transportation tariff for FY 2020-21;
- Estimated Revenue Requirement FY 2021-22 segregated in Transmission, Distribution and Sales function.

Submitted please,

SE (Gas) HoD (F-I)

OIL & GAS REGULATORY AUTHORITY
23 FEB 2021
Diary: 1524
ISLAMABAD

24/2/21

(KAMRAN AKRAM)
GENERAL MANAGER (RA)
for MANAGING DIRECTOR

cc: Head (Finance-I), OGRA

SUI NORTHERN GAS PIPELINES LIMITED

Reference: RA-TAR-21-22(P)-008

Date: February 17, 2021

Registrar,
Oil and Gas Regulatory Authority,
Fazal-e-Haq Road, ZTE Plaza,
Blue Area,
Islamabad.

Dear Sir,

SUBJECT: SUI NORTHERN GAS PIPELINES LIMITED (SNGPL) - PETITION FOR DETERMINATION OF ESTIMATED REVENUE REQUIREMENTSFOR FY 2021-22

This refers to our earlier letter No. RA-TAR-21-22(P)-004 dated 26.01.2021 on the captioned subject (copy enclosed), wherein an extension of 7 days from issuance of decision of Review of Estimated Revenue Requirement (RERR) for FY 2020-21 was requested to file the subject petition, segregated in terms of activities i.e. transmission, distribution and sale as per OGRA's direction so that tariff against each activity be ascertained.

In this regard, it is submitted that we are in process of compiling the petition based on OGRA's directions, for which additional time is required.

In view of the above, the Authority is hereby requested to kindly grant extension for further 7 days to file the revised ERR for FY 2021-22 as per OGRA's directions.

With best regards.

(S. M. ABDUL GHAFOOR)
Chief Officer (RA)
for Managing Director

Encl: As above

SED (Gas)
HoD (F.I)

22/2

OIL & GAS REGULATORY AUTHORITY
22 FEB 2021
Diary: 1453
ISLAMABAD

No extension pl. be allowed.
Registrar
22/2

22-2-2021

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c.c; SED(Gas)

115

SUI NORTHERN GAS PIPELINES LIMITED

Reference: RA-TAR-21-22(P)-004

Date: January 26, 2021

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

Dear Sir,

SUBJECT: SUI NORTHERN GAS PIPELINES LIMITED (SNGPL) - PETITION FOR DETERMINATION OF ESTIMATED REVENUE REQUIREMENTS FOR FY 2021-22

This refers to OGRA's letter No. OGRA-6(2)-1(4)/2020-ERR dated January 08, 2021 on the captioned subject; wherein it has been advised to submit the petition of ERR FY 2021-22 segregated in terms of activities i.e. transmission, distribution and sale so that tariff against each activity be ascertained.

In this regard, it is submitted that the company is already in process of filing of the revised petition of ERR FY 2021-22 based on the desired segregation in terms of activities and some new projects. Furthermore, it is highlighted that the determination of Review of Estimated Revenue Requirement (RERR) for FY 2020-21 is pending with the Authority, which will impact the opening balances for FY 2021-22.

In view of the above, it is requested to kindly grant extension for filing of revised petition of ERR FY 2021-22 within 7 days of receipt of decision of RERR FY 2020-21.

With best regards,

(KAMRAN AKRAM)
General Manager (RA)
for Managing Director

آئل اینڈ گیس
ریگولیٹری اتھارٹی

Oil & Gas
Regulatory Authority

OGRA-6(2)-1(4)/2020-ERR

February 24, 2021

The Managing Director,
Sui Northern Gas Pipelines Limited,
21-Kashmir Road,
LAHORE.

Subject: **SUI NORTHERN GAS PIPELINES LIMITED (SNGPL) – PETITION FOR DETERMINATION OF ESTIMATED REVENUE REQUIREMENTS FOR F.Y. 2021-22**

Dear Sir, السلام علیکم

Please refer to your office letter No.RA-TPA-004-21 dated February 19, 2021 on the subject noted above.

2. Under Section 8(1) of the OGRA Ordinance, 2002 and Rule 4(2) of the NGTR, 2002, every licensee has to file its petition for determination of Estimated Revenue Requirement by first day of December each year, however SNGPL filed its instant petition 31-12-2020 with one month (30) days delay alongwith incomplete documentation.

3. Subsequently, as per advice of the concerned Dept. of OGRA, vide its letter dated 08 & 25-01-2021 advised SNGPL to submit the information stipulated in Clause 15.1 of Authority's determination dated 13-07-2020, so that proceedings for DERR F.Y. 2021-22 may be initiated, submitted before the Authority for admission and Public Hearing process. Further, Registrar Office after consultation with the concerned depts. numerous times telephonically advised SNGPL to submit the requisite data which is still awaited. This delay in non-filing of the subject petition is on the part of the utility company which hampers the entire Revenue Requirement process which carries potential regulatory risk and audit implications in future.

4. In view of above, request for further extension for submission of requisite data is not tenable. It is, therefore advised to submit the same without further delay, in order meet the timelines for issuance of the Authority's determination, please.

Best Regards,

(Dr. Abdul Basit Qureshi)
Registrar
(For & on behalf of the Authority)

OIL & GAS REGULATORY AUTHORITY
ISSUED
24 FEB 2021
ISLAMABAD

o/c

54-B, Fazal ul Haq Road, Blue Area, Islamabad. PABX: +92 51 9244090-98, Fax: +92 51 9244310
54-B فضل الحق روڈ، بلیو ایریا، اسلام آباد فون: 98-9244090 51 92+ فیکس: 9244310 51 92+
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SUI NORTHERN GAS PIPELINES LIMITED

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

Reference:RA-TAR-21-22(P)-009

Date:March 1, 2021

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

OIL & GAS REGULATORY AUTHORITY
03 MAR 2021
Diary 1265
ISLAMABAD

Dear Sir,

Subject: Petition for Estimated Revenue Requirements (ERR) For FY 2021-22

Further to our earlier letter No. RA-TAR-21-22(P)-002 dated December 31, 2020, wherein the Company has filed the Petition for Estimated Revenue Requirements for FY 2021-22. Furthermore, the Authority vide its letter No. OGRA-6(2)-1(4)/2020-ERR dated January 08, 2021 has advised the Company to submit the petition of ERR FY 2021-22 segregated in terms of activities i.e. transmission, distribution and sale so that tariff against each activity be ascertained.

Accordingly, the revised petition of ERR FY 2021-22 is being submitted on the following basis:

1. The petition has been segregated in terms of activities i.e. *"Transmission, Distribution and Sale"* as per the direction of the Authority.

2. Furthermore, the following projects have been included in the instant petition:

   i) In order to develop in-house technical capacity building of Human Resource and training/knowledge on the equipment/machinery before undertaking North South Gas Pipelines Project (NSGPP), the Board of Directors (BOD) at its 556th meeting held on December 31, 2020 accorded approval for Construction of 56" dia X 260 meters transmission pipeline from AV31 (a) to Punjab Power plant V/A at total budgeted cost of Rs. 97 million. Keeping in view of the importance of the project, the Authority is requested to kindly approve the project in FY 2021-22.

   ii) The SNGPL pipeline network is the largest pipeline system of Pakistan sprawling over very large franchise area that was in dire need of an efficient solution like Geographic Information System (GIS) for managing, monitoring and decision making of such complex network. Accordingly, on the advice of Ministry of Energy and BOD's directives, a comprehensive GIS mapping project has been placed and accordingly approved by BOD in its 556th meeting held on December 31, 2020. The project plan consist of two subsequent Phases (1A&1B and 2), with a total budgetary cost of Rs. 509.5 million.

   The cost of Phase-1(A) amounting to Rs. 213.72 million has been included in the instant petition. However, keeping in view of the importance of the project, the Authority is requested to kindly approve this project with total cost amounting to Rs. 509.5 million. The remaining cost will be included/claimed in the petitions of ERR/FRR of the relevant years accordingly.

   iii) The BOD in its 566th meeting held on February 13, 2021, has according approval of Rs. 3,184 million for installation of Smart metering at 2,924 isolated TBSs, which are without meters and Rs. 161 million for installation of GPRS system at 616 metered TBSs. Keeping in view of the importance of the project, the Authority is requested to kindly approve this project in FY 2021-22.

3/3/21 SED (Enr)

HOD (F) 3/3/21

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SUI NORTHERN GAS PIPELINES LIMITED

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

The BOD approval alongwith the detailed agenda of aforementioned projects is being attached with the instant petition as ***Annex-A.***

3. The opening assets of FY 2021-22 have been revised based on the Authority's decision against Company's RERR FY 2020-21 dated February 10, 2021.

4. Accordingly, segment wise detail of shortfall alongwith requested increase the prescribed/sale prices in each category of consumers w.e.f. from July 01, 2021 is as under:

Description	Amount	Amount
Indigenous gas business for FY 2021-22	71,199	187.66
Indigenous gas business *(Including Previous Years' Shortfall)*	325,307	857.40
RLNG business - Cost of Supply	41,312	137.47

With best regards.

(KAMRAN AKRAM)
General Manager (RA)
for Managing Director

Encl: As Above

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SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR REVIEW OF ESTIMATED REVENUE REQUIREMENT
FOR FY 2021-22

120

SUI NORTHERN GAS PIPELINES LIMITED
Petition for Estimated Revenue Requirements
Financial Year 2021-22

121

Schedule I of Tariff Rules 2002

APPLICATION FORM	
Reference number	Date March 01, 2021
Company Profiles	
1. Name of the Petitioner • Sui Northern Gas Pipelines Limited	
2. Full address of the Petitioner • 21, Kashmir Road, Lahore 54000	
3. The grounds giving rise to the Petitioner's interest forming the basis of the Petition • Capital & Revenue Budget estimates for the FY 2021-22 • Overhauling of 25 Nos. turbine engines (Centaur & Saturn) and 9 Nos. gas compressor boosters w.e.f. FY 2021-22 to 2025-26 • GIS Mapping project of gas infrastructure • Installation of smart metering at isolated TBSs. • Laying of 56" dia. x260 meters high pressure transmission pipeline segment. • Revalidation of previous year's capital budgets.	
4. Number and details of the License • License number NG 002/2003 **Transmission of Natural Gas** i. Construction and operation of pipelines for the purpose of transmission of natural gas; and ii. Transmission of natural gas through transmission system of the Licensee **Distribution and Sale of Natural Gas** 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 ; ii. Distribution and sale of natural gas through the distribution system of the Licensee within its authorized area, with an exclusive right till 30th 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 30th June 2005.	

5. State, in concise manner, the grounds and facts forming the basis of the Petition and the relief or determination sought from the Authority. • Our projections for FY 2021-22 reflectan increase of Rs. 857.40 per MMBTU including previous years' shortfall (Rs. 187.66 per MMBTU for FY 2021-22 only) in normal business and Rs. 137.47 per MMBTU as cost of supply for RLNG business.
6. Summary of evidence giving brief particulars of the data, facts and evidence insupport of the Petition. • Statement showing revenue requirement calculation is attached along with supporting details.
7. Other Petitions filed with the Authority at the time of 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 are mentioned below: • Petition of Final Revenue Requirement (FRR) for FY 2019-20
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 five years including year under review

(KAMRAN AKRAM)
General Manager (RA)
for Managing Director

Lahore, March 01, 2021

123

Forecast of yearly capital expenditure

	2021-22	2022-23	2023-24	2024-25	2025-26
LAND FREEHOLD	3	35	40	42	42
BUILDING ON FREEHOLD LAND	300	100	100	105	105
TRANSMISSION MAINS	1,918	3,100	3,500	3,700	3,900
DISTRIBUTION MAINS	69,354	32,000	33,000	33,000	33,000
COMPRESSORS STATION EQUIP.	576	481	685	567	725
TELECOMMUNICATION EQUIPMENT	44	15	17	18	18
PLANT AND MACHINERY	1,322	1100	1,250	1,313	1,380
MEASURING AND REGULATING	15,687	7,500	8,000	8,500	9,000
TOOLS AND EQUIPMENT	42	250	280	294	300
MOTOR VEHICLES	224	300	325	341	360
CONSTRUCTION EQUIPMENT	551	200	220	231	243
FURNITURE & FIXTURES	74	50	55	58	61
OFFICE EQUIPMENTS	41	50	50	53	56
COMPUTER HARDWARE	420	200	220	231	243
COMPUTER SOFTWARE SYSTEM	106	100	110	116	123
SCADA SYSTEM	1	-	-	-	-
Total	90,663	45,481	47,852	48,569	49,556

Consumers

Category of consumers		Total
Industrial	No.	7,686
Commercial	No.	72,763
Domestic	No.	8,871,198
	No.	**8,951,647**

AFFIDAVIT

I hereby certify and declare that the information given in the Petition for Estimated Revenue Requirements FY 2021-22 is correct and complete in all respects to the best of my knowledge.

(KAMRAN AKRAM)
General Manager (RA)
for Managing Director

Lahore, March 1, 2021

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[TS] - TARIFF CALCULATION SHEET (FUNCTION WISE)

	Particulars	TRANSMISSION			DISTRIBUTION			SALES		
		Indigenous	RLNG	Total	Indigenous	RLNG	Total	Indigenous	RLNG	Total
1	Gas Sales									
1A	Sales Volume (MMCF)	-	-	-	-	-	-	395,177	284,861	680,037
1B	Sales Volume (BBTU)	-	-	-	-	-	-	379,409	300,578	679,937
1C	Calorific Value	-		-	-	-	-	960.10	1,055.00	
	(Rupees in million)									
2	Net Operating Revenue									
	Sales at Sale Price	-	-	-		-	-	211,900	-	211,900
	Rental and Service Charges	-	-	-	-	-	-	4,100		4,100
	Surcharge & Interest on Gas Sales Arrears (LPS)	-		-	-	-	-	9,348	-	9,348
	Amortization of Deferred Credit	280	682	962	3,660	803	4,463	3,660	803	4,463
	Other Operating Income	-	-	-	-	-	-	1,894	-	1,894
2A	Total Income	280	682	962	3,660	803	4,463	230,902	803	231,705
	Less: Expenses									
	Cost of Gas		-	-	-	-		191,172	-	191,172
	UFG disallowance	-	-		-	-	-	(750)	-	(750)
	HR Cost (Net off Capital Allocation)	3,129	2,473	5,596	8,480	6,717	15,197	13,589	10,764	24,352
	Operating Cost (Net off Capital Allocation)	2,150	1,703	3,852	5,794	3,491	9,284	8,852	5,239	14,091
	Gas Internally Consumed (Net off Capital Allocation)	1,285	6,675	7,960	1,285	6,675	7,960	1,285	4,675	7,960
	Depreciation	5,205	3,686	8,891	24,502	3,959	28,461	24,873	3,959	28,839
	Transportation charges payable to SSGC	-	7,117	7,117	-	7,117	7,117	-	7,117	7,117
	Finance cost on LNG financing	-	-	-	-	-	-	-	-	-
	Late Payment Surcharge (Payable)	-	-	-	-	-	-	35,778	-	35,778
	Finance cost for Working capital	-	-		-	-	-	875	1,766	2,642
	Regional Office at Karak (Sub area and CSCs)	-		-	90	-	90	90	-	90
	Operating expense of GIS Mapping project	-	-	-	105	-	105	105	-	105
	WPPF	-		-	-	-	-	853	230	1,083
2B	Total Expenses	11,762	21,654	33,416	40,256	27,939	68,215	276,722	35,750	312,472
2C	Return obtainable (2A - 2B)	(11,483)	(20,972)	(32,454)	(36,596)	(27,156)	(63,752)	(45,820)	(34,947)	(80,767)

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125

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[T3] - TARIFF CALCULATION SHEET (FUNCTION WISE)

	Particulars	TRANSMISSION			DISTRIBUTION			SALES		
		Indigenous	RLNG	Total	Indigenous	RLNG	Total	Indigenous	RLNG	Total
3	Required Return on Net Fixed Assets									
	Net Operating Fixed Assets at Beginning	20,109	45,762	65,871	133,229	48,072	181,301	133,561	48,072	181,633
	Net Operating Fixed Assets at End	17,928	42,173	60,101	196,668	46,431	243,099	197,032	46,431	243,463
3A	AVERAGE NET ASSETS	19,019	43,967	62,986	164,949	47,251	212,200	165,296	47,252	212,548
	Deferred Credit Opening	1,832	8,760	10,592	20,480	10,281	30,761	20,480	10,281	30,761
	Deferred Credit Closing	1,988	9,281	11,269	20,819	11,181	32,000	20,819	11,181	32,000
3B	AVERAGE DEFERRED CREDIT	1,910	9,020	10,930	20,650	10,731	31,380	20,650	10,731	31,380
3C	Average Net Operating Fixed Assets (3A - 3B)	17,109	34,947	52,056	144,299	36,520	180,819	144,647	36,521	181,167
3D	Required Return on Net Assets - in Percentage	17.43%	17.43%	17.43%	17.43%	17.43%	17.43%	17.43%	17.43%	17.43%
3E	Required Return (3C x 3D)	2,982	6,091	9,073	25,151	6,365	31,517	25,212	6,366	31,577
4	(Surplus) / Shortfall for FY 2021-22/RLNG cost of supply (Gas Ope	14,465	27,063	41,528	61,747	33,521	95,268	71,032	41,312	112,344
5	Additional Revenue Requirement for LPG Air Mix Projects	-	-	-	167	-	167	167	-	167
6	(Surplus) / Shortfall for FY 2021-22/RLNG cost of supply	14,465	27,063	41,528	61,914	33,521	95,435	71,199	41,312	112,511
	Increase/(decrease) in Prescribed Prices for FY 2021-22(without shortfall pertains to previous years)	-	-	-	-	-	-	187.66	137.47	165.47
7(a)	*Shortfall upto FY 2017-18*							122,177		122,177
7(b)	*Shortfall of FY 2018-19*							44,915		44,915
7(c)	*Shortfall of FY 2019-20 (As per FRR FY 2019-20)*							82,664		82,664
7(d)	*Shortfall of FY 2021-22 (As per DRERR FY 20-21)*							4,352		4,352
7	Total Cumulative Previous Year Shortfall upto FY 2020-21	-	-	-	-	-	-	254,108	-	254,108
8	Cumulative (Surplus)/ Shortfall/RLNG cost of supply	14,465	27,063	41,528	61,914	33,521	95,435	325,307	41,312	366,619
9	*Increase / (decrease) in Prices /Cost of Supply of RLNG (inclusive of shortfall pertaining to previous years)* Rupees Per MMBTU	-	-	-	-	-	-	857.40	137.47	539.20
10	Impact of RLNG Diverted towards System Gas Consumers to be charged to RLNG Consumers									

Note:

1) Minimum disallowance / penalty under rule 28 of Natural Gas Licensing Rules is Rs 250 million.

2) The operating cost has been allocated to RLNG and Indigenous Business on the basis of sales volume.

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126

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[TS] - TARIFF CALCULATION SHEET

	Particulars	Reference	Rs Million Related to Normal Consumers (UFG disallowance Basis)	Reference	Rs Million Related to LNG Consumers
1	Gas Sales				
1A	Sales Volume (MMCF)	4	395,177		284,261
1B	Sales Volume (BBTU)	4	379,403	1	300,528
1C	Calorific Value		960.10		1,056
2	Net Operating Revenue			Rupees in Million	
	Sales at Sale Price	2	211,900		-
	Rental and Service Charges		4,100		-
	Surcharge & Interest on Gas Sales Arrears (LPS)		5,348		-
	Amortization of Deferred Credit	8	3,690	8	803
	Other Operating Income		1,834		-
2A	Total Income		231,902		803
	Less: Expenses				
	Cost of Gas	4	191,172		-
	UFG disallowance		(750)		-
	HR Cost (Net off Capital Allocation)	3	13,583	3	10,754
	Operating Cost (Net off Capital Allocation)	3	8,852	3	5,239
	Gas Internally Consumed (Net off Capital Allocation)	3	1,285	3	0,675
	Depreciation	7.1	24,871	7.2	3,959
	Transportation charges payable to SSGC		-		7,117
	Late Payment Surcharge (Payable)		35,774		-
	Finance cost for Working capital	9	875	8	1,700
	Regional Office at Sarai (Sub area and CSCs)		90		-
	Operating expense of GIS Mapping project		106		-
	WPPF		859		230
2B	Total Expenses		276,722		35,750
2C	Return obtainable (2A - 2B)		(45,820)		(34,947)
3	Required Return on Net Fixed Assets				
	Net Operating Fixed Assets at Beginning	7.1	193,561	7.2	48,072
	Net Operating Fixed Assets at End	7.1	137,032	7.2	46,431
3A	Average Net Assets		165,296		47,252
	Deferred Credit Opening	8	20,480	8	10,281
	Deferred Credit Closing	8	20,819	8	11,181
3B	Average Deferred Credit		20,650		10,731
3C	Average Net Operating Fixed Assets (3A - 3B)		144,647		35,521
3D	Required Return on Net Assets - In Percentage		17.40%		17.43%
3E	Required Return (3C x 3D)		25,213		6,366
4	(Surplus) / Shortfall for FY 2021-22/RLNG cost of supply (Gas Operations)		71,032		41,312
5	Additional Revenue Requirement for LPG Air Mix Projects		167		-
6	(Surplus) / Shortfall for FY 2021-22/RLNG cost of supply		71,199		41,312
	Increase/(decrease) in Prescribed Prices for FY 2021-22 (without shortfall pertains to previous years)		187.66		137.47
7(a)	Shortfall upto FY 2017-18 (As per Accounts)		122,177		-
7(b)	Shortfall of FY 2018-19 (As per Motion for Review against DFRR FY 2018-19)		44,915		-
7(c)	Shortfall of FY 2019-20 (As per FRR FY 2019-20)		82,664		
7(d)	Shortfall of FY 2021-22 (As per RERR FY 20-21)		4,357		
7	Total Cumulative Previous Year Shortfall upto FY 2020-21		254,106		-
8	Cumulative (Surplus)/ Shortfall/RLNG cost of supply		325,307		41,312
9	Increase / (decrease) in Prices /Cost of Supply of RLNG (inclusive of shortfall pertaining to previous years) Rupees Per MMBTU		857.40		137.47
10	Impact of RLNG Diverted towards System Gas Consumers to be charged to RLNG Consumers				53,046

Note:

1) Maximum disallowance / penalty under rule 29 of Natural Gas Licensing Rules is Rs 750 million.
2) The operating cost has been allocated to RLNG and indigenous business on the basis of sales volume

128

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[PP] - ESTIMATED AND SUGGESTED PRESCRIBED PRICES (AS PER RULE 4(3))

Rupees per MMBTU

	Description	Current Prescribed Prices (As per OGRA's notification dated [illegible])	Revised Average Prescribed Prices (w.e.f. July 01, 2021)
1	Domestic consumers		
A	*STAND ALONE METERS*		
B	*mosques, churches, temples, madrassas, other religious places and hostels attached thereto*		
	Upto 50 Cubic Meters Per Month	121.00	1,415.90
	Upto 100 Cubic Meters Per Month	300.00	1,415.90
	Upto 200 Cubic Meters Per Month	553.00	1,415.90
	Upto 300 Cubic Meters per Month	738.00	[illegible]
	Upto 400 Cubic Meters Per Month	1,107.00	1,415.90
	Over 400 Cubic Meters Per Month	1,460.00	1,415.90
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	780.00	1,415.90
2	*COMMERCIAL CONSUMERS*		
	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, hotels, places of entertainment like cinemas, clubs and theaters, private offices, corporate farms etc.		
	All off-takes at flat rate of	1,283.00	1,415.90
3	Special Commercial Consumer (Roti Tandoor)		
	Upto 50 Cubic Meters Per Month	110.00	1,415.90
	Upto 100 Cubic Meters Per Month	110.00	1,415.90
	Upto 200 Cubic Meters Per Month	220.00	1,415.90
	Upto 300 Cubic Meters per Month	220.00	1,415.90
	Over 300 Cubic Meters per month	700.00	1,415.90
4	*Ice Factories*		
	All off-takes at flat rate of	1,283.00	1,415.90
5	*General Industrial consumers*		
	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	1,054.00	1,415.90
6	Zero Rated Consumers (Industrial & Captive)		
	All off-takes at flat rate of	819.00	1,415.90
7	CNG Stations		
	Region-I All off-takes at flat rate of	1,371.00	1,415.90
	Region-II All off-takes at flat rate of	1,450.00	1,415.90
8	*Cement Factories*		
	All off-takes at flat rate of	1,277.00	1,415.90

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129

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

(xv) - ESTIMATED AND SUGGESTED PRESCRIBED PRICES (AS PER RULE 4(4))

Rupees per MMBTU

	Description	Current Prescribed Prices (As per OGRA's Notification dated 26.10.2020)	Revised Average Prescribed Prices (w.e.f. July 01, 2021)
9	*Fertilizer Factories*		
	Feed stock: All off takes at flat rate of	307.00	1,415.90
	Gas used for Fuel for Electricity Generation, steam and housing colonies		
(a)	*Pak-American Fertilizer Limited, Daudkhel*		
	All off takes at flat rate of	1,021.00	1,415.90
(b)	*Pakarab Fertilizer Limited, Multan*		
	All off takes at flat rate of	1,023.00	1,415.90
(c)	*Dawood Hercules Chemicals Limited, Chichoki Malian, Sheikhupura District*		
	All off takes at flat rate of	1,023.00	1,415.90
(d)	*Pak-China Fertilizer Limited/ Hazara Phosphate Plant Limited, Haripur*		
	All off takes at flat rate of	1,023.00	1,415.90
(e)	*Engro Fertilizer Company limited*		
	Feed stock: *All off takes at flat rate of*	[illegible]	1,415.90
	Gas used for Fuel for Electricity Generation, steam and housing colonies	1,023.00	1,415.90
10	*POWER STATIONS*		
(a)	*WAPDA's Power Stations and other electricity utility companies excluding WAPDA's Natural Gas Turbine Station, Nishatabad, Faisalabad*		
	All off takes at flat rate of	857.00	1,415.90
(b)	*WAPDA's Natural Gas Turbine Station, Nishatabad, Faisalabad*		
	All off takes at flat rate of	857.00	1,415.90
	Fixed Charge (Rupee per month)	390,000	390,000
(c)	*Liberty Power Limited*		
	All off takes at flat rate of	[illegible]	1,415.90
10	*Captive Power*		
	All off takes at flat rate of	1,087.00	1,415.90
11	*Independent Power Projects*		
	All off takes at flat rate of	857.00	1,415.90

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130

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[1] - COST OF SUPPLY RLNG TO BE TAKEN IN MONTHLY RLNG PRICE DETERMINATIONS

Particulars		Amount
Quantitative Data		
RLNG Input		BBTU
		392,833
Retainage / gas used in FSRU @ 0.75%		(2,946)
GIC - SSGCL network @ 0.5%		(1,964)
GIC - SNGPL network @ 1.2%		(4,714)
UFG @ 4.69%		(18,424)
RLNG Diverted to System Gas Consumers		(64,257)
Net RLNG sold		300,528
Cost Components		Million Rs.
Amortization of Deferred Credit		(803)
Depreciation		3,959
Return on Assets		6,366
HR and other relevant costs allocated to RLNG		16,002
Gas Internally Consumed SNGPL		6,675
Transportation charges payable to SSGC		7,117
Finance cost for working capital		1,766
WPPF		230
Total		41,312
Rs/ MMBTU		137.47
Diversion of RLNG towards Indigenous Gas Consumer		
RLNG to be Sold as System Gas	MMCF	60,907
	BBTU	64,257
Cost of RLNG Sold as System Gas @ avg cot of RLNG Purchased i.e. Rs. 1416/MMBTU (A)	Rs. in Million	90,986
Cost of RLNG Sold as System Gas booked in Indigenous gas @ avg sale price of Commercial and Domestic i.e. 436.12/MMBTU (B)	Rs. in Million	27,940
Impact of Diversion of RLNG to Indigenous Gas conserms to be charged to RLNG consumer (A-B)	Rs. in Million	63,046
Impact of Diversion of RLNG to Indigenous Gas conserms to be charged to RLNG consumer	RS./MMBTU	209.78
Cost of RLNG purchased ($/MMBTU)		8.45
Cost of RLNG purchased (Rs/MMBTU)		1,415.96

Assumptions:

1. Input volume has been taken as 1020 MMCFD at GCV of 1055 BTU/SCF.
2. Retainage has been assumed @0.75% of RLNG Input.
3. GIC has been assumed as 1.70% of RLNG input (1.2% in SNGPL network while 0.5% in SSGC network).
4. Avg. UFG %age has been assumed as 4.69% of RLNG Input based on the actual data of FY 2019-20.
5. GIC has been valued at the average purchase price of Rs. 1,416/MMBTU, assuming brent price @ $55/bbl and slope as 13.37% plus additional port charges as $0.10/MMBTU while other cost on account of custom duty, regasification charges and retainage @ $1/MMBTU has been taken.
6. GIC in SSGC network is included in the transportation charges, payable to SSGC.

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SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

BASIS / ASSUMPTIONS (Indigenous)

	FY 2021-22	
	Jul - Dec	Jan - Jun
Exchange Parity Rs per US$	**165.00**	**170.00**
Crude oil US$ per Barrel		
Average FOB Prices	44.4813	49.4813
Frieght	0.5187	0.5187
Average C&F Prices	**45.0000**	**50.0000**
MMBTU/BBL	5.6098	5.6098
HSFO US$ per M.Ton.		
Average FOB Prices	265.6299	265.6299
Frieght	4.3701	4.3701
Average C&F Prices	**270.0000**	**270.0000**
MMBTU per M.Ton.	40.7920	40.7920

(5)

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

(D) - STATEMENT OF GAS PURCHASES

Gas Field	GCV	Indicative price Jul-Dec-21 (US$)	Indicative price Jan-Jun-22 (US$)	Indicative price Jul-Dec-21 (PKR)	Indicative price Jan-Jun-22 (PKR)	Jul-21				Aug-21				Sep-21				Oct-21			
						MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2022-23

[X] - STATEMENT OF GAS PURCHASES

FIELD	GCV	Indexed price Jul-Dec-21 (US$)	Indexed price Jan-Jun-22 (US$)	Indexed price Jul-Dec-21 (PKR)	Indexed price Jan-Jun-22 (PKR)	November-21 MMCFD	November-21 MMCF	November-21 MMBTU	November-21 Rupees Million	December-21 MMCFD	December-21 MMCF	December-21 MMBTU	December-21 Rupees Million	January-22 MMCFD	January-22 MMCF	January-22 MMBTU	January-22 Rupees Million	February-22 MMCFD	February-22 MMCF	February-22 MMBTU	February-22 Rupees Million
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cost of Gas Sold						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

152

153

GAS Fields	[illegible]	[illegible]	[illegible]	Indicative price	Indicative price	March-22				April-22				May-22				June-22			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED [illegible] REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

MS - STATEMENT OF GAS PURCHASES

GAS FIELD	GCV	Indicative price Jul-Dec-21 ($/MMBTU)	Indicative price Jan-Jun-22 ($/MMBTU)	Indicative price Jul-Dec-21 (Rs.)	Indicative price Jan-Jun-22 (Rs.)	Jul 21 - Dec 21 MMCFD	Jul 21 - Dec 21 MMCF	Jul 21 - Dec 21 MMMBTU	Jul 21 - Dec 21 Rupees Million	Jan 22 - Jun 22 MMCFD	Jan 22 - Jun 22 MMCF	Jan 22 - Jun 22 MMMBTU	Jan 22 - Jun 22 Rupees Million	TOTAL MMCFD	TOTAL MMCF	TOTAL MMMBTU	TOTAL Rupees Million

154

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[5] - GAS INTERNALLY CONSUMED

Indigenous Gas

Particulars	MMCF	GCV	MMBTU	Avg. cost price	M/Rs.
Transmission System					
Compressors	2,843	943	2,680,636	479	1,284.782
Coating Plant	109	943	102,878	479	49.308
Residential Colonies	74	943	69,801	479	33.454
Sub total	3,026		2,853,316		1,367.544
Distribution System					
Free Gas Facility	536	943	505,165	479	242.116
Co-Generation	87	943	81,670	479	39.143
Sub total	622		586,834		281.259
GIC Indigenous	3,649		3,440,150		1,648.803
			GIC as per Petition		1,284.782

Note:
i) Volume of Coating Plant, Residential Colonies, Free Gas Facility and Co-Gen is projected at the level of FY 2019-20.
ii) GIC relevant to the operations of compressors has been taken under the head of GIC. The gas consumed on account of free gas facility, residential colonies, co generation and coating plant has been booked under the relevant heads, i.e. HR cost and fuel and power.

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[6] - UFG DISALLOWANCE

			Indigenous Gas *(Volume in MMCF)*
1	**Gas Purchases**		
	Gas Received in SNGPL system		364,883
	Energy Equalence - RLNG		-
A	**Net gas received**	A	364,883
	Gas internally consumed:		
	Transmission system		3,026
	Distribution system		622
B	**Total Internal Consumption**	B	3,649
C	**Gas available for sales**	C=A-B	361,234
	Gas sales		
	Billed Volume		334,269
D	**Total Gas Sales**		334,269
E	**UFG Volume (A-B)**	E=C-D	26,965
F	**UFG %age**	F=E/A*100	7.39

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[5] - T&D Cost (ERR FY 2021-22)

Sr #	Description	Transmission			Distribution			Sales			Total	
		Indigenous	RLNG	Total	Indigenous	RLNG	Total	Indigenous	RLNG	Total	Indigenous	RLNG
1	HR Cost	3,125	2,471	5,596	1,358	4,244	9,602	5,109	4,046	9,153	13,509	10,764
2	Stores & spares consumed	330	268	607	104	362	965	15	12	27	558	442
3	Repairs & maintenance of system	206	211	476	541	666	1,508	155	123	278	1,262	1,000
4	Stationery, telegrams and postage	10	8	18	28	22	51	95	75	170	133	105
5	Rent, rates, royalty, electricity and telephones	120	95	215	375	137	709	126	100	228	419	332
6	Travelling expenses	38	30	68	45	35	80	30	24	54	111	90
7	Transport expenses	159	121	274	304	312	700	103	82	185	650	513
8	Insurance	44	35	79	56	68	153	54	43	97	184	146
9	Fuel & Power	305	115	280	162	128	290	-	-	.	307	243
10	Legal and Professional services	46	37	83	90	72	162	55	46	105	195	155
11	ISO 14001 & OHSAS Certification	1	1	2	2	2	4	1	1	3	5	4
12	Advertisement & publicity	5	4	8	9	7	16	128	101	229	141	112
13	Protective clothing & Supplies	13	10	23	25	20	45	16	12	28	54	42
14	Staff Recruiting expenses	3	2	5	6	5	10	4	3	6	12	10
15	Staff Training Expenses	8	7	15	16	13	29	10	8	18	35	27
16	Security expenses	865	685	1,549	104	82	186	68	52	118	1,004	819
17	Sponsorship of Chairs for Universities	1	1	2	3	2	5	2	1	3	6	4
18	Outsourcing of Call Centre	-	-	-	-	-	.	17	13	30	17	13
19	Sports cell expenses / Annual Sports	13	10	23	15	20	45	16	12	28	54	42
20	OGRA fee	-	-	-	-	-		279	92	371	279	92
21	Bank Charges	1	1	2	9	2	5	2	1	3	5	4
22	Facilities Provided by other companies	5	4	9	9	7	17	6	5	11	20	16
23	Board Meeting and directors expenses	12	10	22	29	18	42	15	12	26	50	40
24	Corporate Social Responsibility	3	2	5	5	4	9	3	3	6	11	9
25	Other expenses	59	47	105	160	127	287	52	41	92	270	214
27	Gas Bills Collection Charges	-	-	-	.	-	-	594	66	660	594	66
28	KMI Implementation Plan / LFG Control Activities	-	.	-	1,387	-	1,387	-		-	1,387	-
29	Gathering charges of collection data		-	-		-	.	59	7	65	59	7
30	Dispatch of Gas Bills	-	-	.	-	.	-	149	17	166	149	17
31	Provision for doubtful debts	.	-	-	-	-	-	1,028	815	1,843	1,028	815
32	Gas internally consumed – Indigenous	1,285	6,675	7,960	-	.	..	.	-	-	1,285	6,675
	Gross Operating Budget	6,557	10,851	17,408	9,157	6,154	15,311	8,190	5,811	14,001	23,904	22,818
	Allocation to CWIP (Others)				(155)	(123)	(246)	(23)	(18)	(41)	(178)	(141)
	Net Operating Budget	6,557	10,851	17,408	9,002	6,032	15,093	8,167	5,793	13,960	23,726	22,677

Basis of Allocation :
1. Estimated Revenue Requirement for FY 2021-22 has been allocated to Transmission, Distribution and Selling functions on the basis of departmental costs.
2. Head Office cost has been allocated to Transmission, Distribution and selling functions on proportionate basis before allocating expenses under the heads Gas bill collection, gathering charges, dispatch of gas bills, Provision for doubtful debt and GIC.
2. Estimated Revenue Requirement for FY 2021-22 has been allocated to Indigenous and RLNG functions on the basis of projected sales volume.
3. Expenses under the heads Dispatch of gas bills, Gathering charges, Gas bills collection charges, and provision for doubtful debts are fully charged to Selling function whereas GIC is fully charged to Transmission Function.
4. Only 15% of the expenses under the heads Dispatch of gas bills, Gathering charges, Gas bills collection charges, are charged to RLNG function based on number of consumers and volume handled.
5. LFG Control activities are wholly charged to Indigenous Function
6. OGRA fee has been allocated to Indigenous and RLNG on the basis of annual turnover and accordingly charged to sales function.

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157

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[3.1] - T&D Cost Variance

Rupees in Million

	Description	Petition FY 2021-22	DERR FY 2020-21	MERR FY 2019-20	Actual FY 2019-20	Remarks
1	**Salaries & Wages**					
	Executives					
	Salaries & allowances					
	Salaries	6,054	2,482	4,535	4,313	
	Gratuity	297	122	222	211	
	Pension	612	254	458	434	
	E.O.B.I	19	8	19	9	
	Long service Award	34	7	5	5	
	Housing and accommodations	1	0	2	(0)	
	Insurance (staff related)	27	14	35	18	
	Tea / coffee	32	15	28	23	
	Club membership/subscription	15	13	20	3	
	C.F.C Petrol	45	30	46	39	
	Others Welfare Exec.	6	4	7	4	
		7,142	2,949	5,377	5,059	
	Incremental Impact of IAS-19	(298)	(51)	-	(12)	
		6,844	2,898	5,377	5,047	
	Medical & Welfare					
	Medical expenses - Executives	265	134	225	222	
	Medical expenses - Parents	108	44	87	90	
	Incremental Impact of IAS-19	92	92	-	178	
		465	271	313	490	
	Total Executive cost	7,308	3,169	5,689	5,537	
	Subordinates					
	Wages & allowances					
	Wages	10,457	4,978	8,351	9,344	
	Bonus -(10-C, Agreement, Performance)	985	404	844	764	
	Overtime (Including dinner/breakfast/con	1,108	496	876	1,121	

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158

[3.1] - T&D Cost Variance

Rupees in Million

Description	Petition FY 2021-22	DERR FY 2020-21	RERR FY 2019-20	Actual FY 2019-20	Remarks
Badli/casual labour	1,625	832	1,530	1,317	
Gratuity	356	174	284	307	
Pension	842	410	670	729	
E.O.B.I	148	58	132	63	
Long service Award	3	4	2	2	
L.F.A	90	51	90	63	
Insurance (staff related)	35	17	61	21	
Sundry welfare Staff	30	15	28	24	
Uniform Clothing	10	4	7	7	
Hajj Expenses	61	41	64	45	
Workers children education cess	1	1	1	1	
	15,751	7,483	12,940	13,807	
Impact of CBA Agreement	4,687		291		
Incremental impact of IAS-19	421	307		90	
	20,859	**7,790**	**13,231**	**13,897**	
Medical & Welfare					
Medical expenses - Staff	667	282	519	509	
Medical expenses - Parents	160	93	164	170	
Maternity allowance - Subordinate	7	3	5	3	
	834	377	687	683	
Incremental Impact of IAS-19	45	36	360	72	
	879	413	1,047	754	
Total Subordinate cost	**21,738**	**8,203**	**14,278**	**14,651**	
Free Gas Facility (Previously part of GIC)	**276**	**139**	**319**	**329**	
Total Executive and Subordinate cost	**29,322**	**11,510**	**20,286**	**20,517**	HR Benchmark

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159

(3.1) - T&D Cost Variance

Rupees in Million

	Description	Petition FY 2021-22	DERR FY 2020-21	[illegible] FY 2019-20	Actual FY 2019-20	Remarks
2	**Gas Internally Consumed**					
	Indigenous	1,285	1,288	1,216	543	
	RLNG	6,675	5,105	8,056	4,111	
		7,960	6,393	9,272	4,654	
3	**Stores, Spares and Supplies Consumed**					
	Compression	237	230	182	126	The actual expense of FY 2019-20 is not the true representation of expenses due to COVID-19. 10% normal inflation has been assumed for 3 years on actual expense FY 2018-19 i.e. Rs. 719 million to project the proposed amount. It is also pertinent to mention here that the proposed amount is only 12% over expense allowed by the Authority for FY 2019-20. It is requested that the increase may be allowed considering the increasing prices of spares due to devaluation of PKR as compared to USD as most of store stock items are imported and have higher values as compared to the preceding years.
	Transmission	349	293	210	145	
	Distribution	322	198	398	154	
	Others (incl H.O.)	4	4	12	5	
	Freight & handling	88	75	90	55	
		1,000	800	892	484	
4	**Repairs & Maintenance**					
	Compression	23	19	24	17	
	Transmission	287	84	137	44	Proposed amount includes Rs. 200 million for recoating activities. It is to inform that Recoating activities could not be carried out in FY 2019-20 due to non availability of coating material. The manufacturing of coal tar enamel had been discontinued worldwide due to its carcinogenic properties and no renowned manufacturers are available globally. The recoating works are now scheduled during fiscal year 2020-21 with Cold applied polymeric tapes against which budget is essentially required. An additional amount of Rs. 25 million proposed by Telecom for SCADA
	Distribution	1,090	645	1,001	861	Proposed budget is only 9% over and above the budget allowed by the Authority for FY 2019-20. It is worth mentioning here that the contractor rates have not been revised since July 2017. The projected amount include impact of 25% expected revision in schedule rates of contractors.

00000041

169

[3.1] - T&D Cost Variance

Rupees in Million

Description	Petition FY 2021-22	DERR FY 2020-21	FERR FY 2019-20	Actual FY 2019-20	Remarks
Others (incl H.O. & service depts.)	361	174	190	241	The existing agreements for the Janitorial services are Rs. 150 million as compared to the actual expenses of Rs. 123 million for FY 2018-19 and Rs 115 million for FY 2019-20. Proposed amount includes additional Rs. 16 million as against Quality Assurance Programs (QAP) approved by the Management. Further, the additional impact is for increase in inflation rate and expected revision in Contractor's schedule rates.
Computer (Software/Hardware) Repairs & Maintenance / (Service level Agreements)	500	174	228	357	IT infrastructure mainly consists of - Software Licenses (Oracle, Microsoft, VMWare, Antivirus, Azeus Convene etc.) - Hardware (Servers, Storage, UPS, HHU) - Data Centre (Head office & Manga) - Network (Core Routers, Core Switches, Firewalls etc.) - Click Charges (Monthly Gas Bill Printing Cost) The above requires support from OEM. The Hardware & Software are procured along with support services. The number of consumers is also growing continuously, which also increases the click charges (monthly Gas Bill printing) cost. The IT network infrastructure has also increased due to increased Regions / Locations. The cost of services is increasing every year due to inflation. Proposed amount mainly includes Annual Support of Oracle CC&B and ERP licenses, SLAs of Data centers, storage and networking equipment etc. Majority of these payments are made in USD and due to a tender of Rs. 44 million pertaining to FY 2019-20 could not be processed due to COVID-19, therefore actual expense remain understated. 10% Increase over actual FY 2019-20 (Rs. 400 million) is being projected by assuming 10% inflation for 2 years to cater the expected increase in USD as compared to PKR.
	2,262	1,096	1,580	1,519	

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161

[3.1] - T&D Cost Variance

Rupees in Million

	Description	Petition FY 2021-22	DERR FY 2020-21	RERR FY 2019-20	Actual FY 2019-20	Remarks
5	**Fuel & Power**					
	Compression	26	12	13	25	
	Transmission	194	112	112	161	
	Distribution	289	230	231	230	The budgeted amount includes Rs. 30 million on account of GIC used in distribution offices. Rest is 10% normal increase.
	Others (Incl Co-Generation)	41	43	45	54	
		550	**397**	**401**	**469**	
6	**Stationery, Telegram and Postage**					
	Compression	2	1	1	1	
	Transmission	7	5	5	4	Projected amount Includes Rs. 130 million for 'gas bill papers' as against Rs. 111 million actual for FY 2019-20 due to increase in consumer base. Moreover, due to devaluation of Pak Rupee against US Dollar over the years, the prices of toner cartridges, paper rims and other stationery items have also been increased significantly.
	Distribution	30	24	33	17	
	Others (incl HO & service depts.)	200	170	165	169	
		239	**200**	**204**	**190**	
7	**Dispatch of gas bills**	**165**	**150**	**140**	**133**	
8	**Rent, Rates, Electricity and Taxes**					
	Rent Offices	351	277	247	276	It is submitted that that current agreements with landlords stands at Rs. 317 million. The proposed amount is based on current agreements plus 10% expected increase in agreements.
	Royalty/ Internet services	49	47	45	41	
	Telephone	48	44	60	41	

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162

[3.1] - T&D Cost Variance

Rupees in Million

	Description	Petition FY 2021-22	DERR FY 2020-21	RERR FY 2019-20	Actual FY 2019-20	Remarks
	Electricity	210	156	165	177	The actual expense of FY 2019-20 is not the true representation of expenses due to COVID-19. It is submitted that the operations of the Company were adversely affected due to COVID-19. Major activities were reduced to limited staff owing staff rotation policy during pandemic situation and resultantly the expenses remain lesser than anticipated.
	Pakistan Railway (line crossing charges)	64	-	-	-	Payments to be made to Pakistan Railway/NHA (Line crossing charges) pertaining to FY 2021-22.
	Water Conservancy	6	5	6	6	
	Vehicles rates and taxes	15	12	18	13	
	Others	7	6	0.15	5	
		750	**548**	**541**	**560**	
9	**Travelling**					
	Local travelling					
	Executives	104	91	91	89	
	Subordinates	79	60	60	60	
	Sub Total	182	151	151	150	It is submitted that the operations of the Company were adversely affected due to COVID-19. Major activities were reduced to limited staff owing staff rotation policy during pandemic situation and resultantly the expenses remain lesser than anticipated.
	Conveyance (official)	17	10	10	11	
	Foreign Travelling	2			-	
	Travelling Directors/ Govt. officials	2	2	2	1	
		203	**163**	**163**	**162**	
10	**Transport**					
	Compression	23	14	14	25	Company's actual expense for FY 2019-20 Rs. 920 million remained understated due to COVID-19 while expenses for FY 2018-19 was Rs. 1,007 million; Proposed budget includes 5% anticipated increase in petrol prices as compared to the preceding year as well as impact of proposed revision in hiring charges of vehicles. An additional amount of Rs. 25-30 million annually (for 2 years) would be required for scanning of whole network.
	Transmission	206	118	118	184	
	Distribution	618	500	500	469	
	Others (incl HO & service depts.)	317	178	178	242	
		1,165	**810**	**810**	**920**	

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163

[3.1] - T&D Cost Variance

Rupees in Million

	Description	Petition FY 2021-22	DERR FY 2020-21	RERR FY 2019-20	Actual FY 2019-20	Remarks
11	**Insurance**					
	Third party	3	3	3	2	Increase in capitalized assets & Vehicles of the Company
	Fire risk	225	174	145	167	
	Fidelity / cash in transit	3	3	2	0	
	Motor vehicles	90	85	80	66	
	Loss of Profit	-	-	-	-	
	Miscellaneous	9	6	5	10	
		330	270	235	245	
12	**Legal and professional charges**					
	Legal	291	185	145	194	It is apprised that litigation against the company has increased significantly over the years due to arbitration matters, LNG contracts, revision in gas tariffs, increase in number of consumers and other legal matters.
	Professional	22	25	25	18	
	Tax	8	9	9	14	
	Audit	10	9	9	8	
	Apprenticeship/Scholarship	15	12	12	8	
	Others	4	3	3	3	
		350	242	203	245	
13	**Consultancy for ISO 14001: 2004 & OHSAS 18000: 1999 Certifications.**	9	5	5	4	
14	**Provision for doubtful debts**	1,843	728	1,539	1,854	
15	**Gas Bills Collection Charges**	660	600	540	533	Consumer base estimated in FY 2021-22 is approx 7,272,962 and it is assumed that 95% of the bills are to be paid by the consumers. Current Rate of commission charged by Banks is Rs 8 per bill.
16	**Gathering charges on Bills Collection dat:**	65	55	55	41	Actual expense for FY 2019-20 is on lower side due to COVID-19.
17	**OGRA Fee**	371	432	291	290	

169

00000045

[3.1] - T&D Cost Variance

Rupees in Million

	Description	Petition FY 2021-22	DERR FY 2020-21	RERR FY 2019-20	Actual FY 2019-20	Remarks
18	**Advertisement**	253	206	198	235	Nominal increase of 8% over actual for FY 2019-20 is due to inflation impact for FY 2020-21 and FY 2021-22. In compliance with OGRA licensing rule regarding winter campaign on print and electronic media, rise in budget is requested.
19	Security expenses:					
	Security forces	1,413	733	670	916	Additional Rs. 360 million is on account of security arrangements for Sawan-Qadirpur-AC1X segment. 15% remaining increase as compared to the actual FY 2019-20 is to cater two year inflation impact.
	Security guards	440	267	330	348	Budget has been proposed on the basis of existing agreement with the security agencies i.e. Rs. 400 million plus 10% inflation impact.
		1,853	1,000	1,000	1,264	
20	KMI Implementation Plan FY 2020-21 (UFG Control Activities)	1,387	636	-	947	The amount is essentially required for execution of different KMI's (Key Monitoring Indicators) related to theft control, measurement control, leaking control and improvement of meter testing facilities.
21	Bank charges	10	11	12	9	
22	Protective supplies/ Clothing	96	54	43	53	Company provides uniform and protective clothing to its employees as per standards set by the Company from time to time. The Authority disallowed a certain portion of the amount in FY 2020-21 due to lower actual expense for FY 2019-20 that was due to COVID-19.
23	Staff Recruiting Expenses	22	-	4	4	Funds required for conducting recruitment test against the vacant positions of executives and subordinates.
24	Staff training Expenses	62	35	63	40	Training Expense includes Rs. 10 million for local Training, Rs, 25 million for Sui Northern Gas Pipelines Training Institution (SNGTI) & Rs. 27 million for Executive Development Program.
25	Sponsorship of chairs at Universities	10		10	8	
26	Outsourcing of Call Centre for Complaints Management	30	30	27	26	Normal increase of 9% to cover the inflation impact.
27	Recovery through contractors - (Disconnected Consumers)	60	25	23	10	The commission on recovery of outstanding arrears is approx Rs 120 million. 50% amount petitioned in the light of historical data.

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[3.1] - T&D Cost Variance

Rupees In Million

	Description	Petition FY 2021-22	DERR FY 2020-21	ERR FY 2019-20	Actual FY 2019-20	Remarks
28	Sports related activities	96	58	48	37	The Company has always participated actively in sports events. Similarly the Company is encouraging the sports of Squash, Hockey, Badminton, Tennis and Football. Company desires to maintain / improve its public image being a responsible corporate entity.
29	Corporate Social Responsibility	20	10	10	48	
30	Facilities Provided by other companies	36	14	10	10	The petitioned amount is required to facilitate the Company employees and their eligible dependents posted at Sui Gas field through Service Agreement with M/s PPL where no alternative source of such service exists. The presence of Company's technical staff at well head is necessary for monitoring purposes.
31	Scanning & electronic archiving of Sales record			89		
32	Others					
	Construction equipment operating cost	160	112	102	146	Normal Increase
	Subscriptions	4	3	3	3	
	Newspapers, books & periodicals	7	7	6	3	
	Board meetings & directors' expenses	90	32	29	70	
	Stock exchange fee	4	4	4	3	
	Entertainment expenses	12	12	11	6	
	Outside services employed - govt./ local authority	3	0	0	(0)	
	Sundries	23	19	40	15	
	CNIC verification	13	14	17	8	
	Pilot Project - Digital Meters		-	13	-	
	Cost of gas blown off due to sabotage act	200				Rs. 200 million proposed for 'cost of gas blown off' on the basis of trend of actual expenses i.e. Rs. 214 million & Rs. 161 million for FY 2019-20 & 2018-19 respectively. Historically this budget has never been proposed at ERR level, however being proposed now due to absolute budgetary control on this expense.
		516	203	225	254	
	TOTAL OPERATING COST	51,693	26,681	38,920	35,761	
	Less: Allocated to Fixed Capital expenditure	(5,288)	(355)	(3,809)	(3,863)	
	Net Operating Cost	46,405	26,326	35,111	31,899	

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166

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[9] - ESTIMATED PAYMENT OF MARKUP ON LOANS

Sr.#	Loan Detail	Loan Amount (Rs.)	Markup / Interest Rate	Estimated Markup "2021-22"
1	Short Term Running Finance (For Working Capital Requirement)	10,000,000,000.000	3 month Kibor + 0.45% (4 Billion) 1 month Kibor + 0.45% (4 Billion) 3 month Kibor + 0.25% (2 Billion)	875,200,000.000
2	Short Term Running Finance (For Meeting the Payment of RLNG Suppliers)	20,000,000,000.000	3 month Kibor + 0.50% (13.5 Billion) 1 month Kibor + 0.30% (6.5 Billion)	1,766,450,000.000
	Total	30,000,000,000.000		2,641,650,000.000

* The calculation of markup on loans are calculated on the base of latest Kibor rates + 1 dated on 20.11.2020

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7] - OPERATING FIXED ASSETS *(NORMAL+LNG)*

Total Assets

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate % age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	2,824	-	3	-	2,807	-	-	-		2,807	0
LAND LEASEHOLD	0	-	-	-	0	-	-	-	-	0	0
BUILDINGS ON FREEHOLD LAND	4,432	-	300	-	4,732	1,571	155	-	1,726	1,006	6
BUILDING ON LEASEHOLD LAND	35	-	-	-	35	18	2	-	20	15	6
TRANSMISSION MAINS	170,925	-	1,918	-	122,843	64,852	7,313	-	72,165	50,678	6
DISTRIBUTION MAINS	147,248	-	69,354	-	216,602	63,680	10,916	-	74,595	142,007	6
COMPRESSORS STATION EQUIP	16,998	-	576	-	17,574	10,286	1,037	-	11,323	6,251	6
TELECOMMUNICATION EQUIPMENT	2,208	-	44	-	2,252	2,001	67	-	2,068	184	6
PLANT AND MACHINERY	4,370	-	1,322	-	5,892	3,522	940	-	4,461	1,431	20
MEASURING AND REGULATING	66,199	-	15,687	-	81,886	36,918	7,404	-	44,322	37,564	10
TOOLS AND EQUIPMENT	422	-	42	-	464	399	30	-	429	35	51
MOTOR VEHICLES	3,954	-	224	-	4,178	3,826	156	-	3,982	195	25
CONSTRUCTION EQUIPMENT	9,086	-	551	-	9,637	8,816	326	-	9,141	496	20
FURNITURE & FIXTURES	770	-	74	-	844	704	66	-	770	73	15
OFFICE EQUIPMENTS	322	-	41	-	363	192	35	-	226	36	20
COMPUTER HARDWARE	2,486	-	422	-	2,907	2,235	320	-	2,556	351	33
COMPUTER SYSTEM SOFTWARE		-			-	-		-	-	-	33
SCADA SYSTEMS	557		1	-	558	557	0		557	1	15
TOTAL	380,918	-	90,557	-	471,475	199,577	28,767	-	228,344	243,130	-
Intangible Assets	1,000	-	106	-	1,105	951	66	-	1,017	88	33
Advances for Land											
- Normal Assets	191	-	-	-	191	-	-	-	-	191	
- LNG Assets	52	-	-	-	52	-	-	-	-	52	
Total	382,161	-	90,663	-	472,824	200,528	28,833	-	229,361	243,463	

Depreciation Capitalized

- Normal Assets (Distribution)	
- LNG Assets (Transmission)	-

Depreciation Charged to Expense 28,833

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7] - OPERATING FIXED ASSETS (NORMALIZING)

Distribution

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate % age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	127	-	-	-	127	-	-	-	-	127	0
LAND LEASEHOLD	0	-	-	-	0	-		-	-	0	0
BUILDING ON FREEHOLD LAND	1,037	-	270		1,307	477	70		547	780	6
BUILDING ON LEASEHOLD LAND	35	-	-	-	35	18	2	-	20	15	6
TRANSMISSION MAINS	1,355	-	-	-	1,355	610	82	-	682	468	6
DISTRIBUTION MAINS	147,193	-	69,354	-	216,547	63,652	10,912	-	74,564	141,983	6
COMPRESSORS STATION EQUIP	75	-	-	-	75	64	5	-	69	6	6
TELECOMMUNICATION EQUIPMENT	510	-	44	-	554	193	32	-	425	129	6
PLANT AND MACHINERY	2,085	-	733	-	2,709	1,408	474	-	1,913	828	20
MEASURING AND REGULATING	66,167	-	15,687	-	81,854	36,100	7,401	-	44,301	37,554	10
TOOLS AND EQUIPMENT	271	-	40	-	315	250	72	-	281	36	33
MOTOR VEHICLES	2,045	-	224	-	1,269	1,021	153	-	2,073	196	25
CONSTRUCTION EQUIPMENT	2,310	-	546		2,665	1,904	270	-	2,174	481	20
FURNITURE & FIXTURES	370		74	-	453	317	62		380	73	15
OFFICE EQUIPMENTS	157		41	-	193	124	33	-	156	36	20
COMPUTER HARDWARE	620		27	-	636	584	30	-	614	22	33
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	-	-	-	-		33
SCADA SYSTEMS	306	-	1	-	306	305	0	-	305	1	15
TOTAL	224,389	-	87,049	-	311,430	108,988	19,548	-	128,515	182,967	-
Intangible Assets	374	-	96	-	471	368	23	-	390	81	33
Advances for Land											
- Normal Assets	-	-	-	-	-						
- LNG Assets	-	-			-	-	-	-	-	-	
Total	224,762	-	87,130	-	311,901	109,333	19,570	-	128,903	182,998	

169

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SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7] - OPERATING FIXED ASSETS (NORMAL+LNG)

Transmission

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate % age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	2,677	-	3	-	2,680	-	-	-		2,680	0
LAND LEASEHOLD	0	-	-	-	0	-	-	-	-	0	0
BUILDING ON FREEHOLD LAND	1,395	-	30		1,425	1,094	85	-	1,179	246	6
BUILDING ON LEASEHOLD LAND	-		-	-	-	-	-	-	-	-	6
TRANSMISSION MAINS	119,570		1,918	-	121,488	64,202	7,252	-	71,474	50,015	6
DISTRIBUTION MAINS	55	-	-	-	55	28	3	-	31	24	6
COMPRESSORS STATION EQUIP	16,923	-	576	-	17,499	10,222	1,031	-	11,256	6,144	6
TELECOMMUNICATION EQUIPMENT	1,640	-	-	-	1,640	1,579	32	-	1,511	30	6
PLANT AND MACHINERY	2,440	-	589	-	3,029	1,986	440	-	2,426	603	20
MEASURING AND REGULATING	33	-	-	-	33	18	3	-	21	11	10
TOOLS AND EQUIPMENT	145	-	1	-	146	138	8	-	146	1	33
MOTOR VEHICLES	1,795	-	-	-	1,795	1,795	-	-	1,795		25
CONSTRUCTION EQUIPMENT	6,939	-	5	-	6,944	6,884	55	-	6,939	3	20
FURNITURE & FIXTURES	315	-	-	-	319	319	-	-	319	-	15
OFFICE EQUIPMENTS	48	-	-	-	48	48	0	-	48	-	20
COMPUTER HARDWARE	208	-	-	-	203	203		-	203	-	33
COMPUTER SYSTEM SOFTWARE	-	-	-	-			-	-	-	-	33
SCADA SYSTEMS	252	-	-	-	252	252	-	-	252	-	15
TOTAL	154,436	-	3,121	-	157,557	88,608	8,891	-	97,699	59,858	-
Intangible Assets	1	-	-	-	1	1	0		1	-	33
Advances for Land											
- Normal Assets	191	-	-	-	191	-	-	-	-	191	
- LNG Assets	52		-	-	52	-	-	-	-	52	
Total	154,680	-	3,121	-	157,801	88,609	8,891	-	97,700	60,101	

170

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SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7] - OPERATING FIXED ASSETS (NORMAL+LNG)

Sales

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate % age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	-	-	-	-	-	-	-	-	-	-	0
LAND LEASEHOLD	-	-	-	-	-	-	-	-	-	-	0
BUILDING ON FREEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
BUILDING ON LEASEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
TRANSMISSION MAINS	-	-	-	-	-	-	-		-	-	6
DISTRIBUTION MAINS	-	-		-	-	-	-	-		-	6
COMPRESSORS STATION EQUIP	-	-	-	-	-	-	-	-		-	6
TELECOMMUNICATION EQUIPMENT	58	-	-		58	30	4	-	33	25	6
PLANT AND MACHINERY	125	-	-	-	125	97	25	-	122	2	20
MEASURING AND REGULATING	-	-	-	-		-	-	-	-	-	10
TOOLS AND EQUIPMENT	2		-	-	2	7	-	-	2	-	33
MOTOR VEHICLES	123	-		-	213	110	1	-	113	-	25
CONSTRUCTION EQUIPMENT	28	-	-	-	28	28	-	-	28	-	20
FURNITURE & FIXTURES	72	-	-	-	72	68	4	-	22	0	15
OFFICE EQUIPMENTS	22	-		-	22	20	2		22	-	20
COMPUTER HARDWARE	1,674	-	394	-	2,068	1,440	290	-	1,739	329	33
COMPUTER SYSTEM SOFTWARE	-			-	-	-	-	-	-	-	33
SCADA SYSTEMS	-	-	-	-	-	-	-		-	-	15
TOTAL	2,094	-	994	-	2,488	1,804	328	-	2,132	356	-
Intangible Assets	624	-	9	-	634	582	43		626	8	33
Advances for Land											
- Normal Assets	-	-		-	-	-	-	-		-	
- LNG Assets	-	-	-		-	-	-	-	-		
Total	2,718	-	403	-	3,121	2,386	371	-	2,757	364	

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

(7.1) - OPERATING FIXED ASSETS (NORMAL)

Total Assets

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate % age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	2,578	-	1	-	2,581			-	-	2,581	0
LAND LEASEHOLD	0	-	-	-	0	-	-	-	-	0	0
BUILDING ON FREEHOLD LAND	2,432	-	300	-	2,732	1,571	155		1,726	1,006	6
BUILDING ON LEASEHOLD LAND	35	-	-	-	35	18	2		20	15	6
TRANSMISSION MAINS	65,190	-	1,821	-	67,011	51,148	3,966	-	55,114	11,897	6
DISTRIBUTION MAINS	145,662	-	67,394	-	213,056	63,539	10,762	-	74,301	138,755	6
COMPRESSORS STATION EQUIP	13,549	-	576	-	13,125	9,116	770	-	9,886	3,238	6
TELECOMMUNICATION EQUIPMENT	2,148	-	44	-	2,192	1,975	64	-	2,038	154	6
PLANT AND MACHINERY	4,729	-	1,322	-	5,551	3,322	872	-	4,193	1,358	20
MEASURING AND REGULATING	65,137	-	15,426	-	80,563	36,719	7,285	-	44,004	36,558	10
TOOLS AND EQUIPMENT	374	-	42	-	417	352	30	-	381	35	33
MOTOR VEHICLES	2,868	-	224	-	3,092	2,740	156	-	2,896	196	25
CONSTRUCTION EQUIPMENT	4,780	-	351	-	5,131	4,508	326	-	4,835	496	20
FURNITURE & FIXTURES	544	-	74	-	618	478	66	-	545	73	15
OFFICE EQUIPMENTS	213	-	41	-	254	183	35		217	36	20
COMPUTER HARDWARE	2,472	-	420	-	2,892	2,221	320	-	2,541	351	33
COMPUTER SYSTEM SOFTWARE	-	-			-	-	-	-	-	-	33
SCADA SYSTEMS	557		1		558	557	0	-	557	1	15
TOTAL	311,769	-	88,239	-	400,008	178,448	24,808	-	203,255	196,753	-
Intangible Assets	999	-	106	-	1,104	950	66	-	1,016	88	33
						751					
Advances for Land											
- Normal Assets	191	-	-	-	191		-	-	-	191	
Total	312,959	-	88,345	-	401,304	179,398	24,873	-	204,271	197,032	

Depreciation Capitalized	
- Normal Assets (Distribution)	-

Depreciation Charged to Expense 24,873

0000053

172

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7.3] - OPERATING FIXED ASSETS (Normal)

Distribution

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate % age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	127	-	-	-	127	-	-	-	-	127	0
LAND LEASEHOLD	0		-		0	-	-		-	0	0
BUILDING ON FREEHOLD LAND	1,037	-	270		1,307	477	70		547	760	5
BUILDING ON LEASEHOLD LAND	35	-	-		35	18	2	-	20	15	6
TRANSMISSION MAINS	1,355		-		1,355	610	81		692	663	6
DISTRIBUTION MAINS	145,606		67,394		213,000	63,511	10,758		74,269	138,731	6
COMPRESSORS STATION EQUIP	75		-	-	75	64	5		69	6	6
TELECOMMUNICATION EQUIPMENT	510	-	44	-	554	393	32	-	425	129	6
PLANT AND MACHINERY	2,005	-	733	-	2,730	1,438	474	-	1,913	817	20
MEASURING AND REGULATING	65,104	-	15,426	-	80,530	36,701	7,282	-	43,983	36,547	10
TOOLS AND EQUIPMENT	274	-	42	-	315	259	22	-	281	35	33
MOTOR VEHICLES	2,045	-	224	-	2,269	1,921	153	-	2,073	196	75
CONSTRUCTION EQUIPMENT	2,119	-	546	-	2,665	1,904	270	-	2,174	491	20
FURNITURE & FIXTURES	379	-	74	-	453	317	62	-	380	73	15
OFFICE EQUIPMENTS	152	-	41	-	193	124	33	-	156	36	20
COMPUTER HARDWARE	609	-	27	-	636	584	30		614	22	33
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	-	-		-	-	33
SCADA SYSTEMS	305		1		306	305	0	-	305	1	15
TOTAL	221,739	-	84,822	-	306,560	108,626	19,275	-	127,900	178,660	-
Intangible Assets	374	-	96	-	471	363	23	-	390	80	33
Advances for Land											
- Normal Assets	-		-	-	-	-	-	-	-	-	
Total	222,113	-	84,918	-	307,031	108,989	19,297	-	128,291	178,740	

0000054

173

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7.2] - OPERATING FIXED ASSETS (NORMAL)

Transmission

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate % age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	2,451	-	3	-	2,454	-	-	-	-	2,454	0
LAND LEASEHOLD	0	-		-	0	-	-	-		0	0
BUILDING ON FREEHOLD LAND	1,395	-	30	-	1,425	1,094	85	-	1,179	246	6
BUILDING ON LEASEHOLD LAND	-	-	-	-	-	-	-	-		-	6
TRANSMISSION MAINS	63,835	-	1,821	-	65,656	50,537	3,885	-	54,422	11,234	6
DISTRIBUTION MAINS	55	-	-	-	55	28	3	-	31	24	6
COMPRESSORS STATION EQUIP	12,474	-	576	-	13,050	9,052	766	-	9,818	3,232	6
TELECOMMUNICATION EQUIPMENT	1,580	-	-	-	1,580	1,552	28	-	1,580	-	6
PLANT AND MACHINERY	2,100	-	589	-	2,689	1,787	372	-	2,159	530	20
MEASURING AND REGULATING	33	-	-	-	33	18	3	-	21	11	10
TOOLS AND EQUIPMENT	98	-	1	-	99	91	8	-	98	1	33
MOTOR VEHICLES	713	-	-	-	713	713	-	-	713	-	25
CONSTRUCTION EQUIPMENT	2,632	-	5	-	2,637	2,577	55		2,633	5	20
FURNITURE & FIXTURES	94	-	-	-	94	94	-	-	94	-	15
OFFICE EQUIPMENTS	39	-	-	-	39	39	-	-	39	-	20
COMPUTER HARDWARE	180	-	-	-	180	180	-	-	180	-	33
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	-	-	-	-	-	33
SCADA SYSTEMS	252	-	-	-	252	252	-	-	252	-	15
TOTAL	87,941	-	3,024	-	90,964	68,623	5,205	-	73,228	17,737	-
Intangible Assets	-	-	-	-	-	-	-	-	-	-	33
Advances for Land											
- Normal Assets	191	-	-	-	191	-	-	-	-	191	
Total	88,132	-	3,024	-	91,157	68,623	5,205	-	73,228	17,928	

0000055

174

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7.1] - OPERATING FIXED ASSETS (NORMAL)

Sales

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate % age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	-	-	-	-	-	-	-	-	-	-	0
LAND LEASEHOLD	-	-	-	-	-	-	-	-	-	-	0
BUILDINGS ON FREEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
BUILDING ON LEASEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
TRANSMISSION MAINS	-	-	-	-	-	-	-	-	-	-	6
DISTRIBUTION MAINS	-	-	-	-	-	-	-	-	-	-	6
COMPRESSORS STATION EQUIP	-	-	-	-	-	-	-	-	-	-	6
TELECOMMUNICATION EQUIPMENT	58	-	-	-	58	30	4	-	33	25	5
PLANT AND MACHINERY	123	-	-	-	123	97	25	-	121	2	20
MEASURING AND REGULATING	-	-	-	-	-	-	-	-	-	-	10
TOOLS AND EQUIPMENT	2	-	-	-	2	7	-	-	2	-	33
MOTOR VEHICLES	110	-	-	-	110	107	3	-	110	-	25
CONSTRUCTION EQUIPMENT	28	-	-	-	28	28	-	-	28	-	20
FURNITURE & FIXTURES	71	-	-	-	71	67	4	-	21	-	15
OFFICE EQUIPMENTS	22	-	-	-	22	20	2	-	22	-	20
COMPUTER HARDWARE	2,074	-	394	-	2,057	1,448	290	-	1,759	329	33
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	-	-	-	-	-	33
SCADA SYSTEMS	-	-	-	-	-	-	-	-	-	-	15
TOTAL	2,089	-	394	-	2,483	1,799	338	-	2,127	356	-
Intangible Assets	624		9	-	634	581	43	-	626	8	33
Advances for Land											
- Normal Assets	-	-	-	-	-	-	-	-	-	-	
Total	2,713	-	403	-	3,116	2,381	371	-	2,752	364	

0000056

175

176

BUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7.3] - OPERATING FIXED ASSETS (LNG)

Total Assets

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate % age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	226	-	-	-	226	-	-	-	-	226	0
LAND LEASEHOLD	-	-	-	-	-	-	-	-	-	-	0
BUILDING ON FREEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
BUILDING ON LEASEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
TRANSMISSION MAINS	55,735	-	97	-	55,832	13,704	3,347	-	17,051	38,781	6
DISTRIBUTION MAINS	1,587	-	1,960	-	3,547	140	154	-	294	3,253	6
COMPRESSORS STATION EQUIP	4,440	-	-	-	4,440	1,170	267	-	1,437	3,003	5
TELECOMMUNICATION EQUIPMENT	60	-	-	-	60	27	4	-	31	29	6
PLANT AND MACHINERY	340	-	-	-	340	200	68	-	268	73	10
MEASURING AND REGULATING	1,063	-	261	-	1,324	159	119	-	318	1,005	10
TOOLS AND EQUIPMENT	47	-	-	-	47	47	-	-	47	-	33
MOTOR VEHICLES	1,086	-	-	-	1,086	1,086	-	-	1,086	-	25
CONSTRUCTION EQUIPMENT	4,307	-	-	-	4,307	4,307	-	-	4,307	-	20
FURNITURE & FIXTURES	226		-	-	226	226	0		226	0	13
OFFICE EQUIPMENTS	9	-	-	-	9	9	0	-	9	-	20
COMPUTER HARDWARE	15	-	-	-	15	15	-		15	-	33
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	-	-	-	-		13
SCADA SYSTEMS	-	-	-	-	-		-	-	-	-	15
TOTAL	69,149	-	2,318	-	71,467	21,129	3,959	-	25,088	46,379	
Intangible Assets	1	-	-		2	1	0	-	1	-	33
Advances for land											
- LNG Assets	52		-	-	52	-	-		-	52	
Total	69,202	-	[illegible]	-	[illegible]	21,130	3,959	-	25,089	46,431	

Depreciation Capitalized

- LNG Assets (Transmission)	-

Depreciation Charged to Expense 3,959

00000057

SLU NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7.2] - OPERATING FIXED ASSETS (LNG)

Distribution

Rupees in million

Description	Cost: Balance as on 01-07-2021	Cost: Adjustment 2021-22	Cost: Addition 2021-22	Cost: Deletion during the Year	Cost: Balance as on 30-06-2022	Depreciation: Balance as on 01-07-2021	Depreciation: Depreciation for the Period	Depreciation: Adjustments	Depreciation: Balance as on 30-06-2022	Book Value of Assets as on 30-06-2022	Depreciation Rate %age
LAND FREEHOLD	-	-	-	-	-	-	-	-	-	-	0
LAND LEASEHOLD	-	-	-	-	-	-	-	-	-	-	0
BUILDING ON FREEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
BUILDING ON LEASEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
TRANSMISSION MAINS	-	-	-	-	-	-	-	-	-	-	6
DISTRIBUTION MAINS	1,587	-	1,960	-	3,547	140	154	-	294	3,253	6
COMPRESSORS STATION EQUIP	-	-	-	-	-	-	-	-	-	-	6
TELECOMMUNICATION EQUIPMENT	-	-	-	-	-	-	-	-	-	-	6
PLANT AND MACHINERY	-	-	-	-	-	-	-	-	-	-	6
MEASURING AND REGULATING	1,063	-	261	-	1,324	199	119	-	318	1,006	10
TOOLS AND EQUIPMENT	-	-	-	-	-	-	-	-	-	-	20
MOTOR VEHICLES	-	-	-	-	-	-	-	-	-	-	35
CONSTRUCTION EQUIPMENT	-	-	-	-	-	-	-	-	-	-	25
FURNITURE & FIXTURES	-	-	-	-	-	-	-	-	-	-	20
OFFICE EQUIPMENTS	-	-	-	-	-	-	-	-	-	-	25
COMPUTER HARDWARE	0	-	-	-	0	0	-	-	0	-	20
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	-	-	-	-	-	33
SCADA SYSTEMS	-	-	-	-	-	-	-	-	-	-	33
	-	-	-	-	-	-	-	-	-	-	15
TOTAL	2,649	-	2,221	-	4,870	339	273	-	613	4,258	
Intangible Assets	-	-	-	-	-	-	-	-	-	-	
Advances for Land										-	33
- LNG Assets	-	-			-	-	-	-		-	
Total	2,649	-	2,221	-	4,870	339	273	-	613	4,258	

177

0000058

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7.2] - OPERATING FIXED ASSETS (LNG)

Rupees in million

Transmission

Description	Cost: Balance as on 01-07-2021	Cost: Adjustment 2021-22	Cost: Addition 2021-22	Cost: Deletion during the Year	Cost: Balance as on 30-06-2022	Depreciation: Balance as on 01-07-2021	Depreciation: Depreciation for the Period	Depreciation: Adjustments	Depreciation: Balance as on 30-06-2022	Book Value of Assets as on 30-06-2022	Depreciation Rate % age
LAND FREEHOLD	226	-	-	-	226	-	-	-	-	226	0
LAND LEASEHOLD	-	-	-	-	-	-	-	-	-	-	0
BUILDING ON FREEHOLD LAND	-	-	-	-	-	-	-	-	-	-	6
BUILDING ON LEASEHOLD LAND	-	-	-	-		-		-	-	-	6
TRANSMISSION MAINS	55,735	-	97	-	55,832	13,704	3,347		17,051	38,781	6
DISTRIBUTION MAINS	-	-	-	-	-	-	-	-	-	-	6
COMPRESSORS STATION EQUIP	4,449	-	-	-	4,449	1,170	267		1,437	3,012	6
TELECOMMUNICATION EQUIPMENT	60	-	-	-	30	27	4	-	30	30	6
PLANT AND MACHINERY	339	-	-	-	339	199	64	-	207	73	20
METERING AND REGULATING	-	-	-	-		-		-	-	-	10
TOOLS AND EQUIPMENT	47	-	-	-	47	47	-		47	-	33
MOTOR VEHICLES	1,062	-		-	1,092	1,082		-	1,081	-	25
CONSTRUCTION EQUIPMENT	4,307	-	-	-	4,307	4,307	-	-	4,307	-	20
FURNITURE & FIXTURES	226	-	-	-	226	726	-	-	726	-	15
OFFICE EQUIPMENTS	9	-	-	-	9	9	0	-	9	-	10
COMPUTER HARDWARE	14	-	-	-	14	14	-	-	14	-	34
COMPUTER SYSTEM SOFTWARE	-		-	-	-	-	-	-	-	-	33
SCADA SYSTEMS		-	-	-	-	-	-	-	-		15
TOTAL	66,494	-	97	-	66,591	20,785	3,686	-	24,470	42,121	
Intangible Assets	1	-	-	-	1	1	0	-	1	-	34
Advances for Land											
- LNG Assets	52	-	-	-	52		-	-		52	
Total	66,549	-	97	-	66,645	20,786	3,686	-	24,471	42,173	

178

0000005

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[7.2] - OPERATING FIXED ASSETS (LNG)

Sales

Rupees in million

Description	Cost					Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate %age
	Balance as on 01-07-2021	Adjustment 2021-22	Addition 2021-22	Deletion during the Year	Balance as on 30-06-2022	Balance as on 01-07-2021	Depreciation for the Period	Adjustments	Balance as on 30-06-2022		
LAND FREEHOLD	-	-	-	-	.	-	-	.	-		0
LAND LEASEHOLD	-	-		-	-	.	-	-	.	-	0
BUILDING ON FREEHOLD LAND	-	-	-	-	.	-	-	-	.	-	6
BUILDING ON LEASEHOLD LAND	-	.	-	.	.	-	.	-	-	-	6
TRANSMISSION MAINS	-	-	-	.	-	-	.	-	-	-	6
DISTRIBUTION MAINS	-	-	-	-	-		-	-	-	.	6
COMPRESSORS STATION EQUIP	-		-	-		-	-		.	-	6
TELECOMMUNICATION EQUIPMENT	.	-	-		-	.		-	-	-	6
PLANT AND MACHINERY	1	-	-	-	1	1	0	-	1	0	20
MEASURING AND REGULATING	-	-	-	-	-	-	-	.	-	-	10
TOOLS AND EQUIPMENT	-	-	-	.	.	-	.	-	-	-	33
MOTOR VEHICLES	4		.	-	4	0	-	-	4	-	75
CONSTRUCTION EQUIPMENT	-	-	-	-	-	-	-	-		.	10
FURNITURE & FIXTURES	0		-	-	0	0	0	-	0	0	15
OFFICE EQUIPMENTS	.	-	-	-	-	-	.	-	-	-	20
COMPUTER HARDWARE	0		.	-	0	0	-	.	0	.	33
COMPUTER SYSTEM SOFTWARE	-	-	-	-	-	-	-	-	-	-	33
SCADA SYSTEMS	-	-	-	-		.	..		-	-	15
TOTAL	5	-	-	-	5	5	0	-	5	0	
Intangible Assets	.	-	-	-		-	-	-		-	15
Advances for Land	-	.		-	.	-	-		-	-	
- LNG Assets											
Total	5	-	-	-	5	5	0	-	5	0	

0000060

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

(A3) - Additions in Fixed Assets (Business Category Wise)

Description	Regular Capital Expenditure	Regasification Overhead Project (2021-28)	Chenab-Khanewal-Tangi ... Network System Augmentation	Augmentation / Diversion of ... Network in Lahore City (Phase-II)	GIS Mapping project	Technical capacity building (SNGPL)	Regional Offices Karachi (Balance amount)	Addition in Indigenous Assets	Addition in RLNG Assets	Total Additions	Distribution Indigenous	Distribution RLNG	Distribution Total	Transmission Indigenous	Transmission RLNG	Transmission Total	Sales Indigenous	Sales RLNG	Sales Total
Land freehold	3							3		3	-		-	3	-	3		-	-
Land leasehold	-							-		-	-	-	-		-	-		-	-
Building on freehold land	300							300		300	278	-	332	30	-	30		-	-
Building on leasehold land	-							-		-	-	-		-	-	-		-	-
Transmission mains	665		276			57		[illegible]	41	1,039	-	-	-	1,823	57	1,918		-	-
Distribution mains	65,153			2,202				67,354	4,960	69,364	67,394	1,960	22,354	-	-			-	-
Compression equipment	65	595					3	576		578	-	-		578	-	476		-	-
Telecommunication equipment	44						16	64		44	44	-	44		-	-		-	-
Plant and machinery	1,522							1,122		1,212	733	-	733	580	-	333		-	-
Metering and regulating	12,479						0	15,4[illegible]	251	15,687	15,436	161	15,597	-	-	-		-	-
Tools and equipment	47				29		6	47		43	42	-	42	3	-	3		-	-
Motor vehicles	200							114		114	124	-	334	-		-		-	-
Construction equipment	551				1		12	551		461	546	-	546	3		3		-	-
Furniture and fixtures	50						7	74		74	74	-	74	-		-		-	-
Office equipment	33				11,49		14	41		41	41	-	41				334	-	334
Computer hardware	114							438		470	27	-	37	-	-				
Computer software																			
[illegible]					1			1		1	1		1	-		-			-
SCADA system																			
Sub Total	83,835	622	276	2,202	34	89	49	68,779	[illegible]	73,587	64,822	2,211	89,642	3,0[illegible]	97	3,121	334	-	334
Intangible Assets	31				75			106		106	58	-	56	-		-	[illegible]	-	[illegible]

180

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SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2011-12

(7.4) - Fixed Assets additions Grouping/Bifurcation

Items/Group	Total	Transmission (Indigenous)	Distribution (Indigenous)	Measuring & Regulating (Indigenous)	Distribution (RLNG)	Measuring & Regulating (RLNG)
Distribution Mains (9,800 KMs)	46,810		45,169		1,641	
New Connections (Nos. 1,200,000(Dom), 250 (Inc) & 2800 (Com))	19,200		10,241	8,379	319	261
Replacement of defective undersized meters/15 years old meters (Nos. 828,290)	2,782			2,782		
Construction of TBS / DRS and Modification of Existing DRS	874			874		
Construction / Upgradation / Purchase of Land for SMS	400	400				
Replacement of underground network/Rehabilitation of System (SAP)	6,305		6,305			
CP System	452	452				
G I Pipe & Fittings	720		720			
Installation/Replacement of DRS on operational grounds				-		
Installation of TBS on operational grounds	65			65		
TBS under UFG Control Activities						
Construction Equipment	151					
Plant & Machinery	1,312					
Ioi	104					
Computer Software (Intangible)	31					
Civil Construction	300					
Compression Equipment	49					
Tools & equipment	42					
Furniture & Fixture	60					
Office Equipment / Security equipment	34					
Transportation	200					
Measuring & Regulating Equipment						
Transmission Mains (rehabilitation / upgradation of Transmission sys)	143	143				
Telecom Equipment	44					
Land (for SMS/ ROW)	3					
Compression year II						
SMS Implementation Plan / UFG Control Activities	730		730			
GPRS based System for integration of Industrial Connections with SCADA System for remote monitoring	29			29		
Segmentation of Looped SMSs	1,866		1,866			
Measurement Facility at Isolated TBSs for Micro Monitoring of UFG cases	3,345			3,345		
Sub-Total	86,686	995	65,031	15,474	1,960	261

	-
Special Projects:	
Compression Overhaul Project (2021-26)	533
Low Pressure Problems in Mardan And Peshawar Regions (Charsadda-Mardan-Tangi Transmission Network System Augmentation) (Phase II)	820
Augmentation / Bifurcation of Gas Network in Lahore City (Phase-I)	2,353
Gas Mapping project of gas infrastructure	138
Technical capacity building of SNGPL HR for NSGPP (56" x 260m)	97
Establishment of Regional Office at Karak (balance amount)	49
Total Additions (As per Budget)	90,663

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181

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

(8) - SCHEDULE OF DEFERRED CREDIT

Description		Recoveries Up to June 30, 2021	Recoveries During the Period	Total Recoveries Up to June 30, 2022	Rate	Accumulated Amortization June 30, 2021	Amortization This Year	Amortization Total	Balance as at June 30, 2022
Deferred Credit (Completed Jobs)									
CONSUMER CONTRIBUTION									
TRANSMISSION	RLNG	-	-	-		-	-	-	-
	OTHER	599	19	618		549	37	579	39
DISTRIBUTION	RLNG	1,767	500	2,267		746	121	867	1,900
	OTHER	30,679	981	31,660		25,138	1,870	27,008	4,652
		33,045	1,500	34,545		25,927	2,028	27,954	6,590
GOVERNMENT GRANT			7,118						
TRANSMISSION	RLNG	10,768	1,203	11,971		2,008	682	2,690	9,281
	OTHER	3,849	416	4,265		2,073	243	2,316	1,949
DISTRIBUTION	RLNG	-	-	-			-	-	-
	OTHER	23,878	2,584	26,462		10,772	1,510	12,282	14,180
		38,495	4,203	42,698		14,853	2,435	17,288	25,410
Total Deferred Credit against Completed Work		71,540	5,703	77,243		40,779	4,463	45,242	32,000

182

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SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[10] – Additional Revenue Requirement for LPG Air Mix Projects

Description		Drosh	Ayun	Chitral	Gilgit	Total	Units
Sales Volume					8	8	BBTU
					5	5	MMCF
Sales Revenue	A				11	11	Rs. Million
Cost of gas sold	B				20	20	Rs. Million
Depreciation	C				53	53	Rs. Million
Other operating cost	D				28	28	Rs. Million
Operating fixed asset opening	E				12	12	Rs. Million
Operating fixed asset closing	F				865	865	Rs. Million
Avg Net Asset	G=(E+F)/2				438	438	Rs. Million
ROA @ 17.43%	H=G X 17.43%				76	76	Rs. Million
Shortfall	I=B+C+D+H-A				167	167	Rs. Million

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[10.1] - SCHEDULE OF OPERATING FIXED ASSETS (LPG Air Mix)

Description	Cost				Accumulated Depreciation				Book Value of Assets as on 30-06-2022	Depreciation Rate %age
	Balance as on 01-07-2021	ADDITIONS	ADDITION (C/F)	Balance as on 30-06-2022	Balance as on 01-07-2021	On Opening Balance	On Addition during the year	Balance as on 30-06-2022		
LAND FREEHOLD	4			4	-	-	-		4	0
LAND LEASEHOLD		-		-		-		-	-	0
BUILDING ON FREEHOLD LAND		348		348			10	10	337	5
BUILDING ON LEASEHOLD LAND		-		-		-	-	-	-	5
TRANSMISSION MAINS		-				-	-	-	-	6
DISTRIBUTION MAINS		240		240		-	7	7	233	6
COMPRESSOR STATION EQUIP		-		-		-	-	-		6
TELECOMMUNICATION EQUIPMENT		-		-		-		-	-	8
PLANT AND MACHINERY		309		309		-	31	31	278	10
MEASURING AND REGULATING		10		10		-	1	1	10	10
TOOLS AND EQUIPMENT				-		-	-	-		33
MOTOR VEHICLES	14	-		14	7	3	-	10	3	25
CONSTRUCTION EQUIPMENT		-				-	-	-	-	10
FURNITURE & FIXTURES		-		-		-	-	-	-	15
OFFICE EQUIPMENTS		-		-		-	-	-	-	20
COMPUTER HARDWARE		-		-		-	-	-	-	33
COMPUTER SYSTEM SOFTWARE		-		-		-	-	-	-	33
SCADA SYSTEMS		-		-		-	-	-	-	15
						-		-	-	
TOTAL	18	907	-	925	7	3	49	59	865	-

Intangible Assets	2	-	-	2	2	1	-	1	0	33

Opening Assets	12
Closing Assets	865
Depreciation	53

184

185

SUI NORTHERN GAS PIPELINES LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FOR FINANCIAL YEAR 2021-22

[10.2] - LPG Air Mix Plants Additions

Description	Chitral	Ayun	Drosh	Gilgit	Total
LAND FREEHOLD					-
LAND LEASEHOLD					-
BUILDING ON FREEHOLD LAND				348	348
BUILDING ON LEASEHOLD LAND					-
TRANSMISSION MAINS					-
DISTRIBUTION MAINS				240	240
COMPRESSORS STATION EQUIP					-
TELECOMMUNICATION EQUIPMENT					-
PLANT AND MACHINERY				309	309
MEASURING AND REGULATING (500 Connection)				10	10
TOOLS AND EQUIPMENT					-
MOTOR VEHICLES					-
CONSTRUCTION EQUIPMENT					-
FURNITURE & FIXTURES					
OFFICE EQUIPMENTS					-
COMPUTER HARDWARE					-
COMPUTER SYSTEM SOFTWARE					-
SCADA SYSTEMS					-
TOTAL	-	-	-	**907**	**907**

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0024-1566871 **E-STAMP** PB-LHR-2E31C3AE579DF6EE

Non-Judicial Rs 1,200/-

Description	:	POWER OF ATTORNEY - 48(50)(a)
First Party / Principal	:	SNGPL [36302-0431766-5]
Second Party / Attorney Holder	:	KAMRAN AKRAM THROUGH GM [35202-2716257-3]
Agent	:	TALAL MUSHTAQ ADV [10000-0000050-0]
Stamp Duty Paid by	:	KAMRAN AKRAM THROUGH GM [35202-2716257-3]
Issue Date	:	15-Jun-2017, 09:56:40 AM
Paid Through Challan	:	20175230919F38DF
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 24th day of June 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 **Mr. Kamran Akram, General Manager, (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.

Plea for appointment of Local Commission due to illness/inability [illegible] through [illegible] Advocate [illegible]
As the applicant [illegible] special confidence in the Advocate by moving this application through him, [illegible] said counsel is appointed as Local Commission accordingly. It shall be the duty of said counsel is to verify the identity of the Executant from two witnesses in the locality as well as from NADRA record & he shall be exclusively responsible for any mistake in identity. The said counsel is directed to accordingly get the deed executed in his presence & that of witnesses & the subject property owned by the executant and no case/stay order is pending before any court of law which he is required to verify from the concerned patwari as well record of this office after the needful the document be submitted before this office with him 4 months. In case of courts case/Ec pending and inability in proper identification of defective title the deed be returned without execution.
No. 4266 Dated. 15-6-77

Sub-Registrar
[illegible] Town, Lahore

28/6/17

e-Stamp Verified

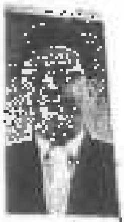
Presented for registration this General Power of Attorney at Lahore this 29th day of June 2017, by Managing Director Sui Northern Gas Pipelines Limited, 21-Kashmir Road, Lahore, before Local Commissioner, Mr. Tallal Mushtaq, Advocate, NBM Law Associates, 220 Dawood Atif Centre, 2nd Floor Moj Darya Road, Lahore.

MANAGING DIRECTOR	Mr. Tallal Mushtaq LOCAL COMMISSIONER	DIRECTOR
CNIC No.	CNIC No. 35202-2736774-9	CNIC No.

494

Execution and contents of this General Power of Attorney have been admitted by the aforesaid executors, who were identified by Mr. Muhammad Ali Chughtai, Senior Law Officer, Law Department, Sui Northern Gas Pipelines Limited, 21-Kashmir Road, Lahore.

MANAGING DIRECTOR	Mr. Tallal Mushtaq LOCAL COMMISSIONER	THE ATTORNEY	DIRECTOR
CNIC NO.	CNIC NO.35202-2736774-9	CNIC NO.35202-2716357-3	CNIC NO.



WITNESS	IDENTIFIER	WITNESS
(Ikram Afzal)	(Muhammad Ali Chughtai)	(Muhammad Tahir Rasheed)
Exec. Law Officer	Senior Law Officer	Law Officer
Sui Northern Gas Pipelines Limited	Sui Northern Gas Pipelines Limited	Sui Northern Gas Pipelines Limited
21-Kashmir Road, Lahore.	21-Kashmir Road, Lahore.	21-Kashmir Road, Lahore.
CNIC No. 31303-5170971-9	CNIC No. 35201-5123636-1	CNIC No. 35202-2793098-3

188

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 2nd day of June 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 Afzal
Executive 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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10/0[illegible]/2017

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GM (P&D)
04 JAN 2021
3030
RECEIPT NO

SGM (P)
05 JAN 2021
RECEIPT NO.

SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

From: Company Secretary	To: General Manager (P&D) *Thru: DMD (OPS)/SGM(Projects)*
Ref. CA/BOD-1/4623 December 31, 2020.	

CONFIDENTIAL

ITEM-I

TECHNICAL CAPACITY BUILDING OF SNGPL HUMAN RESOURCE FOR PARTICIPATION IN NORTH SOUTH GAS PIPELINE PROJECT.

(SHORT ORDER)

The Board of Directors considered this agenda item at its 565th meeting held on December 31, 2020.

After detailed deliberation, the Board of Directors in line with the recommendation of the Finance and Procurement Committee given at its 315th meeting held on December 18, 2020 accorded approval in respect of following subject to fulfillment and completion of all procedural/ codal, legal and financial prerequisites and strictly in accordance with law:

1. Construction of 56" Ø x 260 meters transmission pipeline from AV-31(a) to Punjab Power Plant V/A at a total budgeted cost of Rs. 97 Million (Rupees Ninety Seven Million Rupees Only) by taking budgetary approval from OGRA;
2. The Management was allowed to initiate the procurement process for material immediately due to importance of Project. However, Purchase Orders shall be placed upon receipt of OGRA's approval;
3. In view of the fact that the breakup of the total project cost in different heads/components is tentative in nature, Management was allowed to reallocate the budget within different heads (if required) keeping overall expenditure within the total proposed project.

The Managing Director was authorized to take or cause to be taken all the necessary steps to give effect to the above decision.

You are requested to please take further action in this regard. The detailed minutes are under preparation and would be communicated after clearance by the Chairperson, Board of Directors.

(IMTIAZ MEHMOOD)
Company Secretary

cc: MD
CFO

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SUI NORTHERN GAS PIPELINES LIMITED

Note to Directors

From: Managing Director

Note No.7324

Dated: December 24, 2020

AGENDA FOR THE 565TH MEETING OF THE BOARD OF DIRECTOR - ITEM-I

TECHNICAL CAPACITY BUILDING OF SNGPL HUMAN RESOURCE FOR PARTICIPATION IN NORTH SOUTH GAS PIPELINE PROJECT

This item of the agenda was submitted at the 315th meeting of the Finance and Procurement Committee of Directors held on December 18, 2020. Recommendations of the F&PC are attached.

(IMTIAZ MEHMOOD)
Company Secretary

EXTRACT FROM THE DRAFT MINUTES OF THE 315TH FINANCE AND PROCUREMENT COMMITTEE OF DIRECTORS HELD ON DECEMBER 18, 2020

6. **ITEM-F TECHNICAL CAPACITY BUILDING OF SNGPL HUMAN RESOURCE FOR PARTICIPATION IN NORTH SOUTH GAS PIPELINE PROJECT.**

6.1 **After detailed deliberation, the Finance and Procurement Committee in line with the recommendation of the Management recommended to the Board of Directors to accord approval in respect of:**

1. Construction of 56"0 x 260 meters transmission pipeline from AV 31(a) to Punjab Power Plant V/A at a total budgeted cost of Rs. 97 Million (Rupees Ninety Seven Million Rupees Only) by taking budgetary approval from OGRA;

2. Company may be allowed to initiate the procurement process for material immediately due to importance of Project. However, Purchase Orders shall be placed upon receipt of OGRA's approval;

3. 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.

SUI NORTHERNGAS PIPELINES LIMITED

AGENDA FOR THE FINANCE / PROCUREMENTCOMMITTEE MEETING–ITEM NO. F

TECHNICAL CAPACITY BUILDING OF SNGPL HUMAN RESOURCE FOR PARTICIPATION IN NORTH SOUTH GAS PIPELINE PROJECT

1-Management Request /Purpose/ Objective:

Government of Pakistan in collaboration with Russian Federation Ministry of Energy has planned to undertake North South Gas Pipeline Project (NSGPP) of about 1100 KM long high pressure transmission pipeline to be laid in minimum 48"or 56" diameter from Karachi to Lahore for the transportation of Re-gasified Liquefied Natural Gas (RLNG) under the auspices of Inter Governmental Agreement (IGA) under Government to Government mode. The design capacity of the pipeline shall be 1.6 BCFD.

Special Assistant to Prime Minister (SAPM) on Petroleum while chairing a fortnightly progress review meeting held on October 13, 2020 stressed the need for participation of both Sui's in executing the project being the local specialist companies, engaged in pipeline construction business and urged the both Companies to enhance their technical capacities as HR training so that they can be able to execute such a magnanimous project expeditiously. Moreover, Sui Companies were advised to start a pilot facility to train their HR to build and manage 48" and 56" diameter pipelines and take all necessary actions including training of the staff to complete all formalities in this regard. Minutes of the meeting are enclosed as Annexure- A.

It is also to mention here that Russia-Pakistan technical committee meeting held its first meeting from November 16-18, 2020 in Islamabad on mutual cooperation for the development of gas pipeline project. Energy ministries of both the countries participated in the meeting.

During this meeting NSGPP has been re-named as Pakistan Stream Gas Pipeline Project (PSGPP). Moreover, in response to a question during the recent technical level government to government talks, GOP has proposed to engage both local gas utility companies i.e. SNGPL and SSGCL to be the EPC contractor for ensuring the timely execution of this project. Minutes are enclosed as Annexure-B.

In order to develop in-house technical capacity building of Human Resource and training/knowledge on the equipment/machinery before undertaking PSGPP by SNGPL, we have planned to construct 56"dia x 260 meters high pressure transmission pipeline segment from Valve Assembly AV 31(a), D/S Sidhnai to 24" dia Punjab Power Power Plant Valve Assembly at MP 261.230(D/S Sidhnai) in the space available in existing Right of Way (ROW). Map showing the location of the proposed segment is attached as Annexure-C.

Although this hookup of existing valve assemblies of transmission network would not have impact on gas flow capacity of the relevant pipeline segment, however stated connection / hook-up of 24" dia Punjab Power line with the rest of the main transmission network will provide operational flexibility during any maintenance and emergency situation by providing a path for gas transfer into/from 24" dia Punjab Power pipeline and vice versa.

2- Financial Information:

Total estimated cost for the construction of this pilot facility shall be Rs. 97 million. Project estimates mainly comprised of steel line pipe price & valves / fittings for hook up/ cross connection between two valve assemblies have been prepared on the prevailing market rates. The project shall be financed through Company's own resources.

3- Brief Chronological History:

A fortnight meeting to review the progress of NSGP in the light of Honourable Supreme Court of Pakistan's Judgment dated 13th October 2020 was chaired by SAPM on Petroleum and was attended by Secretary Petroleum and others, wherein Sui Gas Companies were advised to immediately start pilot facility to train HR staff to build and manage 48" and 56" diameter pipelines. Minutes of the Meeting conveyed vide Ministry of Energy (Petroleum Division) letter ref. No. 6(5)/2016/D-III/NSGP-PS(Vol-VI) dated 23.10.2020 are attached as Annexure-A.

4- Budget Information / Impact on revenue of the Company:

The budgeted cost of the pilot facility to be constructed for technical capacity building is Rs. 97 million, details of which are attached as **Annexure-D**. The related capitalization shall be entitled to rate of return under the existing tariff regime. The project will be undertaken with the approval of OGRA.

5- Risks Involved/ Mitigation Strategy:

None

6-Conformance to Rules/Law:

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

7-Recomendations:

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 56"Ø × 260 meters transmission pipeline from AV 31(a) to Punjab Power Plant V/A at a total budgeted cost of Rs. 97 Million **(Ninty Seven Million Rupees Only)** by taking budgetary approval from OGRA.

2- Company may be allowed to initiate the procurement process for material immediately due to importance of Project. However, Purchase Orders shall be placed upon receipt of OGRA's approval;

3- 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)

(Sibghat Ullah Suri)
Sr. General Manager (P)

(Faisal Iqbal)
Chief Financial Officer

(Sohail M. Gulzar)
Dy. Managing Director (Ops.)

(Amer Tufail)
Managing Director

195

GM (P&D)
28 OCT 2020
2216
[illegible]

F. No. 6(5)/2016/D-III/NSGP-PS(Vol-VI)
Government of Pakistan
Ministry of Energy
(Petroleum Division)
****

Annex-A

No: 6
29 OCT 2020
MD SECRETARIAT
126

Islamabad, the 23rd October, 2020

Subject: **MINUTES OF THE FORTNIGHTLY MEETING ON THE IMPLEMENTATION OF NORTH SOUTH GAS PIPELINE PROJECT (NSGPP) HELD ON 13.10.2020**

Please find enclosed minutes of the meeting held on 13th October, 2020 on the subject matter, duly approved by the Special Assistant to the Prime Minister on Petroleum, for information and further necessary action.

(Umer Saeed Khan)
Section Officer (Dev-III)

Distribution:

i. Secretary Law and Justice Division.
ii. Director General (Europe), Ministry of Foreign Affairs, Islamabad.
iii. The Managing Director, NESPAK, Lahore.
iv. The Managing Director, Government Holdings (Pvt) Limited.
v. The Managing Director, Inter State Gas Systems (Pvt) Limited.
vi. Managing Director, SNGPL, Lahore
vii. Managing Director SSGCL, Karachi.
viii. Director (Gas), Directorate General of Gas, Policy Wing, Petroleum Division, Islamabad.
ix. Legal Advisor, Directorate General of Petroleum Concessions, Policy Wing, Petroleum Division, Islamabad.
x. PS to the Special Assistant to the Prime Minister on Petroleum.
xi. SO to Secretary, Petroleum Division.
xii. APS to Additional Secretary (P), Petroleum Division
xiii. APS to Joint Secretary I&JV, Petroleum Division

GM P&D

28/10

cc MD

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MINUTES OF THE FORNIGHTLY MEETING ON THE IMPLEMENTATION OF NORTH SOUTH GAS PIPELINE PROJECT (NSGPP) HELD ON 13.10.2020

A fortnightly meeting to review the progress on the North South Gas Pipeline Project in light of the Hon'ble Supreme Court of Pakistan's judgement dated 13th August 2020 was chaired by Special Assistant to Prime Minister (SAPM) on Petroleum and was attended by Secretary Petroleum amongst others. The list of participants is attached as Annex-I.

2. The following presentations were given to the participants:
   (i) ISGS Presentation on the implementation status of decisions taken in 25th September 2020 and 7th September 2020 meetings **(Annex-II)**;
   (ii) SNGPL presentation on the North South Gas Pipeline (800 km) laying options; equipment requirement, and training **(Annex-III)**; and
   (iii) NESPAK presentation on the draft Technical Proposal regarding consultancy services for North South Gas Pipeline Project covering feasibility study, route finalization, land data for acquisition of land, and Social and Environmental Impact Assessment **(Annex-IV)**.

3. After deliberations, the following decisions were taken in the meeting:

Pipeline diameter:

i. Based on the in-house studies and meeting held on 5th October 2020 with Sui's, 56" is the most optimal pipeline dia however the Sui Companies have no experience and no equipment to lay such pipe. SAPM suggested to take a firm decision in this regard after discussion with the Russian Ministry of Energy as part of technical level talks and that the specs of course would cater to Pakistan's current and future gas needs. Sui Company's participation in the NSGP is of prime importance as it will provide them a novel opportunity to develop demonstrable capability including technical knowhow, availability of relevant equipment/machinery, and trained human resource to build and manage 48" and 56" diameter pipelines. Sui companies were advised to immediately start a pilot facility to train their HR on take all necessary actions including training of the staff to complete all formalities in this regard.

Pre FEED Consultancy Work:

ii. NESPAK's draft Technical proposal on the proposed Scope of Work covering: (i) route finalization; (ii) collection of land data for land acquisition; (iii) SEIA; and (iv) project feasibility study, was approved with the amendment that the feasibility study will be undertaken by NESPAK independently. Arrangement of resources for the Feasibility Study and SEIA will be the responsibility of NESPAK. It was advised that NESPAK should ensure maximum use of consultancy payment with PKR and make maximum effort to minimize use of Forex for consultancy services. Regarding the engagement of NESPAK the proposal to seek PPRA exemption was considered. SAPM explained that similar issues have been discussed in the Cabinet meeting several times, where the Finance Division has given clear view that such issues need to be handled at the procuring agency level, being the competent authority under the relevant PPRA rules, to declare emergency and engage the appropriate service provider. Accordingly, ISGS should seek the approval and MOE-PD will issue necessary advice to ISGS in this regard and also offer its support.

iii. In order to expedite the consultancy work to meet the time line given by Hon'ble Supreme Court of Pakistan, NESPAK will start the consultancy work including field survey and collection of land acquisition data Southwards from Lahore and Northwards from Pakland, Karachi simultaneously. NESPAK will provide first parcel of land data (from Head Balloki to Depal Pur – 85 km) to ISGS for verification by January 2021. NESPAK will complete all deliverables as per the Scope of Work within the proposed 12-15 months' time.

iv. NESPAK will coordinate with Suis to select the Pipeline ROW in a way that it is near to the existing transmission network. The offtake points will also be finalized based on the network and demand requirements of Suis as NSGP is being planned and built as an open access pipeline with Underground Storages and Compressions facilities where needed.

Aligning Pipeline Capacity and LNG Terminal development plans:

v. SAPM informed that the PM chaired a meeting with LNG developers recently, where they requested the availability of pipeline capacity for their upcoming LNG terminals on priority. A follow up meeting was held in Petroleum Division on 7th October 2020 where it was decided that MoE-PD will request this information from the LNG terminal operators' in writing. Further to which Petroleum Division has asked LNG terminal operators to convey in writing LNG terminals commissioning dates; gas volumes to be transported through the pipeline, entry and exit points, etc. Upon receipt of the information, MOE-PD will provisionally allocate the pipeline capacity.

vi. SSGCL will assess the route of pipeline from Port Qasim to Pakland whether ROW for another pipeline can be obtained. The initial response is that an additional line can be built, but apparently there is a railway crossing issue at one point. SSGCL to present their proposal at next fortnightly meeting on ways and means to a solution.

Land Acquisition:

vii. To strengthen ISGS Land department, it was decided that Suis will depute some of their land personnel with ISGS on secondment basis. ISGS will continue hiring its own staff to strengthen its land department on permanen basis.

viii. Based on ISGS funding requirement for the Project including land cost, it was decided to closely work with the Finance Division for release of funds at the earliest and opening of assignment account.

ix. Secretary Petroleum advised to compensate the land owners on market rates to avoid litigation and ensure timely completion of the Project.

x. Considering the ROW width is 42 meters to lay two pipelines; to avoid land rights issues at the time of laying the second pipeline, it would be appropriate that ISGS owns the project land, and provides land leasehold rights to SPV. For the accounting treatment of the second pipeline, SAPM advised to capitalize one pipeline ROW width (37m) and the rest to be kept as an asset of the Petroleum Division on ISGS accounting books.

GIDC Collection and Review Petitions:

xi. The status of GIDC amount billed and collected by Suis was noted. SAPM advised Suis to provide necessary details to MOE-PD about the amount which could not be recovered due to stay orders issued by different courts, and the amount which was not paid by the life line customers due to financial crunch and likewise by industry due to Covid-19.

xii. Mr. Abdul Rashid Jokhio, Director (Gas) informed that review petitions have been filed in the Supreme Court of Pakistan which are admitted as well, so implementation status/ report might be required at any time. SAPM advised to maintain a record on the development of North South Gas pipeline as implementation status of the decision of the Hon'ble Supreme Court. MD ISGS apprised that a foal person (Document Controller) in ISGS has been nominated to collect & maintain all relevant record in a chronological order.

Annexure – I

FORTNIGHTLY MEETING ON THE IMPLEMENTATION OF NSGP PROJECT
HELD ON 13th OCTOBER, 2020 – ISLAMABAD

LIST OF PARTICIPANTS

		Designation/Organization
1.	Mr. Nadeem Babar	Special Assistant to PM on Petroleum
2.	Mian Asad Hayaud Din	Secretary, Petroleum Division
3.	Ms. Saira Najeeb Ahmed	JS (I & JV) Petroleum Div. / MD – ISGSL
4.	Ms. Ayesha Saeed	Director (Europe-II), Ministry of Foreign Affairs
5.	Mr. Hassan Mehmood	Dy. Legislative Advisor, Ministry Law & Justice
6.	Mr. Niaz Muhammad	Deputy Secretary - Petroleum Division
7.	Mr. Rasheed Jokhio	Director (Tech.), Directorate General (Gas)
8.	Mr. Umar Saeed Khan	Section Officer (D-III), Petroleum Division
9.	Ms. Shaista Gul	Assistant Chief, PD & Special Initiatives
10.	Mr. Masood Nabi	Managing Director, GHPL
11.	Mr. Muhammad Waseem	DMD (Operation), SSGCL
12.	Mr. Ghulam Moin Butt	GM (Eng. Services), SSGCL
13.	Mr. Sibghat Ullah	Sr. GM (P), SNGPL
14.	Mr. Imran Yousaf	GM (Production & Development), SNGPL
15.	Mr. Yawer Ansari	General Manager, NESPAK
16.	Mr. Zargham Ishaq Khan	GM (Building Services / IT), NESPAK
17.	Mr. Farooq Qamar	AGM Technical, ISGSL
18.	Mr. Ijaz ul Haq	Act. Chief Financial Officer, ISGSL
19.	Mr. Aurangzeb Mehmood	Chief Manager (Legal), ISGSL
20.	Mr. Athar Mehmood Shah	Chief Manager (Procurement), ISGSL
21.	Mr. Yasir Manzoor	Chief Manager (Land Acquisition), ISGSL
22.	Mr. Asif Hussain	Dy. Chief Engineer, ISGSL
23.	Mr. Mudassar Hussain	Company Secretary, ISGSL

200

F. No. 6(5)/2016/D-III/NSGP-PS (Vol-VI)
Government of Pakistan
Ministry of Energy
(Petroleum Division)
****

GM (P&D)
25 NOV 2020
22942
RECD.

131

Annex- B

Islamabad, the 23rd November 2020

Subject: **MINUTES OF THE MEETINGS OF THE TECHNICAL COMMITTEES OF GOVERNMENT OF PAKISTAN AND THE RUSSIAN FEDERATION FOR THE NORTH SOUTH GAS PIPELINE PROJECT (NSGPP).**

Please find enclosed approved minutes of the meetings held between the technical committees of the Russian Federation and the Government of Pakistan from 16th to 18th November 2020 for information.

GM (P&D)

27/11

(Umer Saeed Khan)
Section Officer (D-III)
051-9204206

Distribution:

i. Secretary, Finance Division.
ii. Secretary Law and Justice Division.
iii. Director General (Europe), Ministry of Foreign Affairs,
iv. The Managing Director, NESPAK, Lahore.
v. The Managing Director, Government Holdings (Pvt) Limited.
vi. The Managing Director, Inter State Gas Systems (Pvt) Limited.
vii. Managing Directors, SNGPL and SSGCL.
viii. Director (Gas), Directorate General of Gas, Policy Wing, Petroleum Division, Islamabad.
ix. Legal Advisor, Directorate General of Petroleum Concessions, Policy Wing, Petroleum Division, Islamabad.
x. PS to the Special Assistant to the Prime Minister on Petroleum.
xi. SO to Secretary, Petroleum Division.
xii. APS to Additional Secretary (P), Petroleum Division
xiii. APS to Joint Secretary I&JV, Petroleum Division

MINUTES OF THE FIRST JOINT RUSSIA-PAKISTAN TECHNICAL COMMITTEE MEETING FOR THE IMPLEMENTATION OF THE NORTH-SOUTH GAS PIPELINE PROJECT

1. The first meeting of the Joint Russia-Pakistan Technical Committee for the implementation of the North-South Gas Pipeline Project (hereinafter – the JTC) was held on November 16-18, 2020 in Islamabad, Pakistan.

2. The Russian Side of the JTC was headed by the Deputy Director of International Cooperation Department of the Ministry of Energy of the Russian Federation Mr. Vasiliy B. Eremenko and included representatives from the Ministry of Energy of the Russian Federation, Embassy of Russia in Pakistan, Trade Representation of Russia in Pakistan, the Federal State Unitary Enterprise (FSUE) "Centre of Operations Services" of the Ministry of Energy of the Russian Federation, as well as "Eurasian Pipeline Consortium" Ltd. and PAO «TMK».

3. The Pakistani Side was headed by the Secretary, Petroleum Division, of the Ministry of Energy of the Islamic Republic of Pakistan, Mian Asad Hayaud Din and representatives of the Technical Committee of NSGP as well as the Special Assistant to the Prime Minister on Petroleum, Mr. Nadeem Babar.

4. The full list of the meeting attendees is enclosed as **Annex I**.

5. During the course of the meetings, both Sides reiterated and underscored the strategic importance of the Project in strengthening and establishing long-term bilateral relationship between the two Governments, based on mutual strategic interests beyond commercial considerations. Pakistani side also stressed upon the importance of the Project vis-a-vis its energy requirements and involvement of the Russian Federation in the implementation of the Project for bolstering the bilateral relationship.

6. The Pakistani side provided the Russian side with the answers on the technical, commercial and legal questions raised in the letter of the Minister of Energy of the Russian Federation H.E. Alexander Novak dated 23 October 2020 **(Annex II)**.

7. The Russian side shall study the provided answers and shall get back with its feedback and additional comments/queries not later than 30 November 2020.

8. Both sides discussed and proposed necessary amendments to the Agreement between the Government of the Russian Federation and the Government of the Islamic Republic of Pakistan on cooperation for the development of the North-South Gas Pipeline Project of 16 October 2015 (hereinafter – IGA), subject to the approval of the Ministry of Energy of the Russian Federation, higher management as well as the respective government authorities of the Russian Federation and Ministry of Energy (Petroleum Division) of the Islamic Republic of Pakistan and relevant approvals from competent fora (**Annex III**). Both

sides will make best efforts to execute the Protocol of the amendment to IGA by 7th JCC meeting.

9. In the wake of the judgment of the Hon'ble Supreme Court of Pakistan in the matter of Gas Infrastructure Development Cess (GIDC) the JTC proposed a revised project structure which was reflected in the draft of Protocol of the amendments to IGA. As per the revised project structure, the Pakistani side provided the Russian side with the draft of the Shareholders Agreement, which will be reviewed by the Russian side (Annex IV).

10. The JTC recommended to contribute seed money in proportion to the respective shareholding of each party upon incorporation of the SPC.

11. The Pakistani side explained that the growing demand and supply of gas in the country has necessitated revision of the Project technical parameters that includes enhancing the transportation capacity of the pipeline from 1.2 to 1.6 Bcfd, with optional pipeline diameter of 48" at least. The exact technical and economic parameters of the Project shall be specified in the relevant reports and studies reflecting current and prospective gas demand and supply in Pakistan.

12. As per the recommendation of the JTC, both sides shall discuss and agree upon the future Shareholders Agreement not later than 31 December 2020.

13. Both sides also discussed other opportunities of mutual beneficial cooperation including the LNG supplies by the Russian companies, as well as the possibility of the construction of Underground Gas Storages (UGS) in Pakistan, onshore LNG terminals and other related infrastructure projects.

14. The JTC agreed to convene bi-monthly virtual meetings of the Technical Committee and discussions in order to follow-up on the implementation of the project; as well as to finalize the proposed draft of the Shareholders Agreement, Memorandum and Articles of Association of proposed Special Purpose Company (SPC), agreement etc.

15. The JTC recommended to hold the 7th meeting of the Russia-Pakistan JCC in second half of January 2021 in Moscow, the Russian Federation.

The minutes of the meeting are signed on November 18, 2020 in Islamabad, Islamic Republic of Pakistan, in two copies in English.

MIAN ASAD HAYAUD DIN

Secretary of the Ministry of Energy, Petroleum Division of Pakistan

VASILIY B. EREMENKO

Deputy Director of International Cooperation Department of the Ministry of Energy of the Russian Federation

LIST OF QUESTIONS FOR THE PAKISTAN SIDE REGARDING PARAMETERS OF IMPLEMENTATION OF CONSTRUCTION PROJECT << NORTH-SOUTH>> GAS PIPELINE

Financial questions:

S. #	Question	Response
1.	How will the financial model of the joint venture that is being created be developed?	Pakistan and Russian nominated entities will contribute the funds in a JV Company/Special Purpose Vehicle (SPV) to be formed as a Company in Pakistan under Pakistani Laws with majority shareholding with Pakistani Nominated Entity (PNE). The funding from PNE will be in the form of equity.
2.	How will the total project cost be approved (including FEED stages, engineering, purchasing, construction and entry into operation of the pipeline) and how will this cost be allocated across main cost items?	FEED will be conducted by JV Company formed under the Pakistan law and cost figures will be firmed up with the approval of Board of Directors of the JV Company. The total project cost above fixed ROE shall be lowest possible cost, arrived at after deliberations by Pakistani side.
3.	How will the Russian participant be guaranteed the return of investment on stages prior to the completion of construction phase of the project?	• *Currency of investment* as equity will be Pak Rupees. • *At what stage:* Initially the seed money at the time of incorporation of SPV and later as per the shareholding agreement/ financing plan; • *Period:* Investment will be done as equity injection by PNE. The arrangement at the maturity/end of project life shall be mutually agreed between JV Company participants; and • *Conditions:* Will be mutually decided with Russian Nominated Entity. •
4.	How will the Russian participant be guaranteed the return of investment on stages prior to the completion of construction phase of the project?	The Project returns shall accrue upon commencement of commercial operations of the project. Any terms in this respect may be negotiated between the JV Company participants mutually.
5.	What guarantees of investment protection of the Russian JV participant (beyond the usual sovereign guarantee) may be offered by the Pakistan side?	Russian Nominated Entity may be given the first and preferred right to dividend / return confirmed via upfront approved tariff assuring a specific ROE.
6.	How will return of investment be effected — via purchase of shares or via a tariff?	During the period of project, ROE will be part of tariff. Call/put option at the project maturity may be deliberated between nominated entities.

S. #	Question	Response
7.	Is the Pakistan side ready to finance the project with part of project financing being organized by the joint venture (to minimize the risks of the Russian side's capital participation)?	Pakistan side is committed to equity-finance its share of Project.

Legal questions:

S. #	Question	Response
1.	Are the changes proposed by the Pakistan side to the previously approved in the Intergovernmental agreement and the protocol of the 6th session of the coordination committee) project structure (including BOOT-agreement, commercial agreement, sovereign guarantee) caused exclusively by the need to comply with the decision of the supreme court of Islamic Republic of Pakistan to use the gas infrastructure tax? What the main points of this decision and what is the timeline to comply with them?	Yes, the changes in the intergovernmental agreement caused by the judgement of the Supreme Court of Pakistan. The main point of the decision of the Supreme Court is direction to the Government of Pakistan to take all steps to commence work on the laying of the North-South pipeline within six months. Ministry of Energy is foreseeing the execution of Shareholders Agreement; incorporation of SPV; signing of amended Inter-Governmental Agreement; and initiation of land acquisition activities, etc. till Feb. 2021.
2.	What basic terms of the Shareholders agreement between JV Participants are envisioned by the Pakistan side? Which applicable laws?	The Shareholders Agreement is under preparation, and its broad contours will be discussed in the upcoming meeting on 16th November 2020.
3.	JV participants (as specified by the changes to the Intergovernmental agreement) are to prepare an EPC-agreement within 6 months. What is meant here—the agreement between the JV and the future EPC contractor (with whom the contract for engineering, supply and construction shall be concluded).	In order to expedite working on the Project, Pakistan side proposes to engage local gas utility companies (SNGPL and SSGC) to be the EPC contractors to ensure timely execution of the Project.
4.	What agreements shall be foreseen by the new version of the Intergovernmental agreement? It is mandatory to sign the agreement	Pakistan side does not see any need of signing the Facilitation agreement by Ministry of Energy (Petroleum Division). The Project will be implemented under the auspices of IGA under Government to

S. #	Question	Response
	regarding support of the Project by the Government of Pakistan (Facilitation agreement).	Government mode and therefore will be supported by Ministry of Energy (Petroleum Division) and it is expected that it will be supported by Ministry of Energy of Russian Federation as Government Counterpart entity.

Technical questions:

S. #	Question	Response
1.	What is the designed capacity of the pipeline (11 or 16 billion cubic meters per annum)?	The design capacity of the pipeline shall be 1.6 bcfd (16.54 bcm per annum).
2.	What resource base shall be supplying the gas pipeline and what are the guarantees of its readiness at the time that the gas pipeline begins operation?	Gas source/supply is foreseen from the expansion of capacities of two existing LNG terminals and two new LNG terminals. The terminal operators have shown their readiness by 2023. The completion of NSGP pipeline and new LNG terminals will be synchronized.
3.	What work items - in the view of Pakistan side - shall be performed by local contractors / suppliers and what share (estimate) may they occupy in the total Project cost?	The local contractors shall carryout construction activities, and labour and material locally available will be utilized. The equipment and material to be imported can be done by Russian Nominated Entity (RNE).
4.	Why was the timing of the Project realization reduced in such a dramatic fashion (from 25 years to 5 years) - is it due to the fact that only the construction and entry into operation are accounted for and not the operation period? Or have there been substantial changes to the project design?	The term of the Project will be [25] years.
5.	On what basis will the resources and responsibilities be allocated among JV participants with regards to implementation of the main stages of the project: FEED, engineering, purchasing, construction and entry into operation? What will the Russian JV participant be responsible for?	The material locally available shall be arranged by Pakistan side while the equipment/ material to be imported can be on the part of Russian side. The FEED, construction and operational activities will be carried out by the JV Company/SPV jointly.

S.#	Question	Response
6.	Who will own the gas pipeline after its entry into operation and for how many years (or until which event)?	The pipeline will be owned and operated by JV Company/SPV for the project term (25 years).
7.	With which party will the owner of the gas pipeline conclude the gas transportation agreement and on what basic terms (guarantees, payment terms, expected tariffs, applicable law etc.)?	JV Company/SPV will execute gas transportation agreements with LNG terminal operators, other shippers on commercial terms under the regulatory requirements.

PROTOCOL
on the amendments to the Agreement between the Government of the Russian Federation and the Government of the Islamic Republic of Pakistan on cooperation for the development of the North-South Gas Pipeline Project of 16 October 2015

138

The Government of the Russian Federation and the Government of the Islamic Republic of Pakistan, hereinafter referred to as the Parties,

in accordance with Article 6 of the Agreement between the Government of the Russian Federation and the Government of the Islamic Republic of Pakistan on cooperation for the development of the North-South Gas Pipeline Project of 16 October 2015 (hereinafter – the Agreement),

have agreed as follows:

Article 1

To amend the Agreement as follows:

a) in title of the Agreement the words "of the North-South Gas Pipeline Project" substitute by the words "Pakistan Stream Gas Pipeline (PSGP) Project";

b) in Article 1:

the words "of the North-South Gas Pipeline Project" substitute by the words "Pakistan Stream Gas Pipeline (PSGP) Project";

the words "the city Lahore" substitute by the words "Phool Nagar, District Kasur, Punjab";

c) in Article 2:

in paragraph two of point 1 the words "the Ministry for Petroleum and Natural Recourses of the Islamic Republic of Pakistan" substitute by the words "the Ministry of Energy (Petroleum Division) of the Islamic Republic of Pakistan";

in paragraph two of point 2 the words "limited liability company "RT-Global Resources" and its affiliates" substitute by the words ""nominated by competent authority of the Russian Side a joint venture of Federal State Unitary Enterprise "Operations Services Centre" of the Ministry of Energy of the Russian Federation"", "Eurasian Pipe-Line Consortium, Ltd." and "PAO TMK" and/or their wholly owned subsidiaries";

d) points 2, 3 and 4 of Article 3 are deleted.

e) supplement the Article 3 with paragraph 5 as follows:

"The Parties have agreed that their Nominated Entities shall incorporate a special purpose company (SPC) in the Islamic Republic of Pakistan for the implementation of the Project, wherein the Pakistan Nominated Entity shall have majority shareholding.

The Russian Nominated Entity shall have not less than 26% shares in the SPC to be paid up by the Russian Nominated Entity by way of cash or in-kind contribution of the services and products to be used in the Project, as decided by the Russian Nominated Entity, subject to compliance of State Bank of Pakistan regulations.

Recognizing the expertise of the Russian Nominated Party in construction of similar projects, during the construction phase of the Project, the Russian Nominated Entity shall consult with the Pakistan Nominated Entity following which, the Russian Nominated Entity shall have the right to decide on matters related to the design, engineering, procurement and construction of the Project, in a transparent manner according to international quality standards, cost competitiveness (benchmarking pipe and equipment with Russian Federation and all the field work benchmarking with Pakistan) and compliance with international standards. For all other matters during the term of the Project all decisions shall be made by the majority except for "reserved matters" to be agreed upon in the shareholders agreement.

The SPC shall ensure maximum utilization of Pakistan and Russian materials and resources based on the principles of transparency, cost competitiveness and compliance with applicable international standards.

All procurement of goods, services and works by the SPC in pursuance of this Agreement shall be exempted from the public procurement laws of Pakistan.

The Pakistani Party shall (a) guarantee the investment required for the Pakistan Nominated Entity during the construction, (b) guarantee compensation to Russian Nominated Entity as agreed upon in the shareholders agreement, (c) ensure performance obligations of the Pakistan Nominated Entity during the implementation of the Project, and (d) give priority of dividend distribution to the Russian Nominated Entity from cash flows available in SPC. The Russian Party shall ensure performance obligations of the

Russian Nominated Entity during the implementation of the Project.

The Pakistani Party shall enter into an agreement with the SPC and the Russian Nominated Entity, which shall incorporate concessions, incentives, exemptions including taxation, foreign exchange protections, and any other benefits available to the Russian Nominated Entity for this project, which shall be no less favorable than afforded to any other investment on a Government to Government basis. Any project agreements shall be concluded by the SPC with the relevant counter parties.

The Pakistani Party shall ensure all concessions, approvals, autorisations and exemptions for the Project to enable joint ownership of the Project by the Pakistani Nominated Entity and Russian Nominated Entity at the development, construction and operation stages.

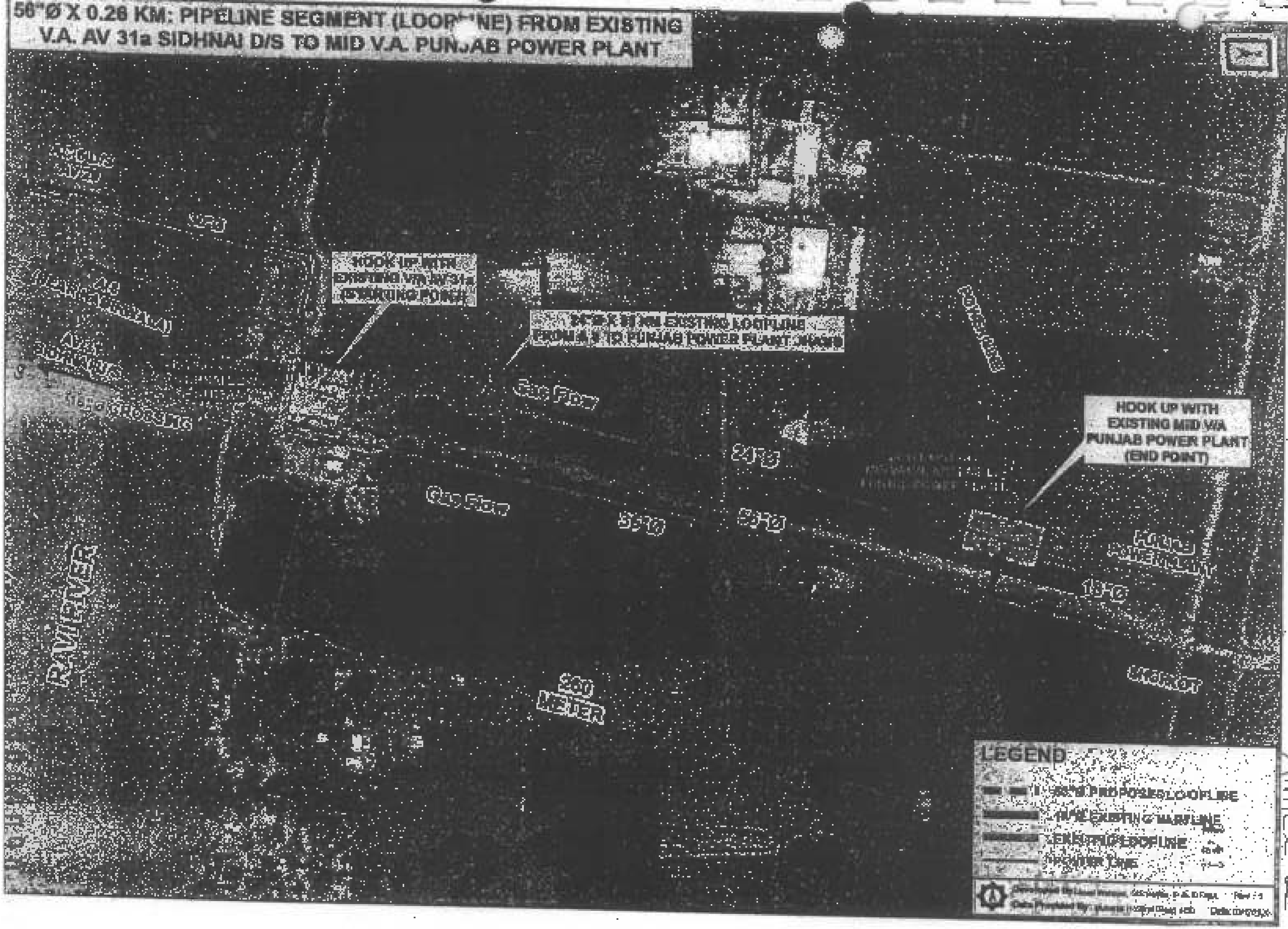
Article 2

The present Protocol shall enter into force on the date of signing by the Parties.

Done at on 2020, in duplicate in the Russian and English languages, both texts being equally authentic.

For the Government of the Russian Federation	**For the Government of the Islamic Republic of Pakistan**

Annex-210



56"Ø X 0.28 KM: PIPELINE SEGMENT (LOOP LINE) FROM EXISTING
V.A. AV 31a SIDHNAI D/S TO MID V.A. PUNJAB POWER PLANT
HOOK UP WITH
HOOK UP WITH
EXISTING MID V/A
PUNJAB POWER PLANT
(END POINT)
Gas Flow
Gas Flow
RAVI RIVER
200
METER
LEGEND

211

Annex-D
142

Budgeted Cost

Laying of 56" Dia 260 Mtr 0.688" W.T. Transmission Line

(Sidhnai D/S AV31a - V/A Punjab Power Plant)

(Million Rupees)

	Description		Total
1	Material		
	Line pipe		34.220
	Coating Cost		2.663
	Hook-Up with V/A's		40.000
	Joint Coating		0.455
	Cathodic Protection		-
	Transportation		0.734
		(a)	78.072
2	Construction Cost		6.000
3	Crop Compensation		0.117
4	Freehold Land		-
5	Civil Works		2.000
6	HSE		0.200
7	Survey & Design		0.140
8	Security		0.190
9	Quality Assurance		2.000
10	Camp set up		1.000
11	Overheads		2.662
		(b)	14.309
		(a+b)	92.381
12	Contingencies (5 %)	(c)	4.619
		(a+b+c)	97.000
	Grand Total		97.000

212 A-2

SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

533
06 JAN 2021
SUI NORTHERN
Regulatory Affairs

From: Sr. General Manager (C)	To: General Manager (RA)
Ref: P&D/02-14671 Date. 05.01.2021	Your Ref: Dated.

GIS MAPPING PROJECT OF GAS INFRASTRUCTURE

Geographic Information System (GIS) is a revolutionary technology that is being globally implemented for critical decision making, planning/monitoring and asset management particularly in the Public sector organizations. GIS is the science of location combined with the analytical powers of computer technology, which enables its users to analyze any location-related issue ranging from simple feasibility study to complex planning jobs. The SNGPL's pipeline network is the largest pipeline system of Pakistan sprawling over very large franchise area that was in dire need of an efficient solution like GIS for managing, monitoring, planning and decision making of such a complex network.

As per the Board of Director's (BoD) directive and Ministry of Energy's advice to implement a full-fledged GIS for SNGPL's distribution pipeline network in shortest possible time frame, a comprehensive plan was prepared to delineate the infrastructure and human resource requirements along with the cost estimates and timelines.

Accordingly, the GIS project completion plan has been approved by BoD in its 565th meeting held on 31-12-2020. Detailed agenda for the infrastructure, human resource and other requirements for timely completion of GIS mapping project which was put up to Board of Directors along with Board's approval is enclosed herewith.

Please take up the case with OGRA accordingly.

Please take up the case with OGRA accordingly.

(Imran Yousaf Khan)
Sr. General Manager(C)

Encl: As above

Cc: CFO
Cc: GM(P&D)
Cc: GM(F)

RA Department			
		Date 7/1	
✓	CO(RA)	✓	Action Required:
	SE(RA)		Please do the needful
	EOLA		Please discuss
	ED(RA)		For n/a Please
	EE(RA)		File
	O(RA)		

make it part of ERR 21-22

Distribution

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Government of Pakistan
Ministry of Energy
Petroleum Division
***

No:-------
28 JUL 2020
MD SECRETARIAT

To;

Managing Director
Sui Northern Gas Pipeline Limited (SNGPL)
Lahore

Islamabad, 21st July, 2020

Subject: **Geographic Information System**

With reference to the visit of Mr. Khushnaam Ali (Assistant Director) to SSGC headquarter regarding "**Geographic Information System**" installed in SSGC headquarter Karachi. After submission of post visit report it is advised by the competent authority to replicate the same in SNGPL.

2. Sui companies can solve multiple issues depending on the requirements/issues being faced by them. Studies/simulations can also be carried out to proper address issues pertaining to counter UFG, Pressure maintenance, proper laying down of network, right directions of pipelines, SMS, TBS, value (Entry/exit Points), Gas health, knowing the topography i.e. knowledge of railway tracks, water flows, land diagrams and many more. SNGPL is requested to provide information about the following points:

1. Present working on GIS system.
2. Transmission and distribution report on GIS [Complete Survey Report].
3. Time require to complete and fully implement the GIS.

Nadeem

(Shahbaz Tahir Nadeem)
Deputy Secretary

214

TIME LINE CASE
By Email/Courier

Government of Pakistan
Ministry of Energy
(Petroleum Division)

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SUBJECT: **TASKS FOR INCLUSION IN PERFORMANCE AGREEMENT**

I am directed to refer to the meeting held on the subject at Prime Minister's Office on 2nd June, 2020 and to say that during the meeting Prime Minister's Office has shared the attached proforma. It is therefore, requested that the requisite information under the light of tasks pertaining to your office/department, may please be shared with the undersigned according to enclosed template on top priority basis, for onward submission to authority concerned.

3. Soft copy of the solicited on prescribed format information be provided at cdnmpnr@gmail.com that enabling us to prepare a consolidated response.

Pl provide inputs on items pertaining to your section at earliest 5/6/20

Encls: As above.

(SHAHBAZ KHAN)
Section Officer (CDN)
Tel. 9209980

DD (Engg I)
DD(P&P)/AO
5/6/2020

1. Joint Secretary (I&JV), M/o Energy, Petroleum Division, I
2. Executive Director General, Policy Wing, Petroleum Division
3. Director Generals (Oil/Gas/PC/LG/SP/Minerals/PDIP), Petroleum Division.
4. Director General (GSP), Quetta.
5. Deputy Director (Admin), Policy Wing, Petroleum Division.
6. Deputy Secretary (CA), Petroleum Division.
7. Section Officer (Admin), Petroleum Division.

CDN Section's U.O No. 4(2)/2019-CDN-Min-Meeter dated: 11.05.2020

Please provide inputs on relevant items

DD (Admin)

215

Tasks Assigned

Petroleum Division

1. **Policy**
   - i. Apply regulatory Guillotine to simplify rules, regulations, policies and reduce or eliminate redundant regulations.
   - ii. New exploration policy and strategy with targets to encourage domestic exploration, refining, development and production of petroleum products and gas.
   - iii. New policy on energy conservation.
   - iv. Integrated policy for development/reform of gas sector covering supply, transmission and distribution.
   - v. Framework of cooperation between federal and provincial governments for development of petroleum, natural resources and mining.

2. **Tasks**
   - i. Energy security strategy
   - ii. DemandSupply assessment and projections (Petroleum, oil, Gas) for next 15 years along with plans to bridge the gaps (BC
   - iii. Oil refinery (at Gwadar) project's plans and implementation schedule
   - iv. Targets and plan for award of new concession licenses for oil and gas exploration over next 3 years
   - v. Plans with timelines for establishment of LNG terminal, atleast 2 new terminals by 2021.
   - vi. Progress on projects/plans of the CPEC Working Group of Petroleum
   - vii. UFG reduction plan with specific targets and timelines. (UFG
   - viii. Strategy and plan to reduce cost of petroleum products and gas with specific tasks and timelines.
   - ix. Strategy and plans to rationalize procurement of energy supplies to ensure predictable and lower costs.
   - x. Development of cost and operational efficiency targets alongwith KPIs for SNGPL & SSGCL and regular reporting.
   - xi. Implementation plan with timelines for completion of North South gas Pipeline project with Russia.
   - xii. Completion of ongoing projects by ISGS, SNGPL, SSGC etc. (Implementation plan may also be shared).
   - xiii. Commissioning of PARCO Oil Refinery by 2023
   - xiv. Major projects to be completed in the medium to long term e.g. Offshore Gas [illegible] Project, TAPI and [illegible] etc.
   - xv. Implementation of planned Saudi investment in oil refinery (implementation plan may also be shared).

3. **PSDP Plus**
   - i. Concession for oil and Gas Prospecting Rights
   - ii. Mineral Prospecting Rights

4. **Administrative/miscellaneous**
   - i. Hiring for vacant positions of Head of Attached Departments/ Organizations (HR)
   - ii. Interactive website with all requirements concerning functions, procedures [illegible]/SOCs etc. under the Ministry's jurisdiction, with real time updates along with an online complaint/feedback system
   - iii. Establishment of Geo-Data and Geo-Mapping Centres P&D

SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

From: Company Secretary	To: General Manager (P&D) *Thru: DMD (OPS)/SGM(COMPRESSION)*
Ref. CA/BOD-1/4627 December 31, 2020	

CONFIDENTIAL

ITEM–H

GIS MAPPING PROJECT OF GAS INFRASTRUCTURE.

(SHORT ORDER)

The Board of Directors considered this agenda item at its 565th meeting held on December 31, 2020.

After detailed deliberation, the Board of Directors in line with the recommendation of the Finance and Procurement Committee given at its 315th meeting held on December 18, 2020 accorded approval of the following subject to fulfillment and completion of all procedural/ codal, legal and financial prerequisites and strictly in accordance with law;

a) Carrying out proposed GIS mapping Project's Phase-IA at a total cost of Rs.213.72 Million (Rs. Two Hundred Thirteen million and Seven Hundred Twenty Thousand) comprising Revenue Costs Rs.104.64 million and Capital Costs Rs.109.08 million to be undertaken by obtaining budgetary approval from OGRA.

b) Carrying out Phase-IB of the project after the completion of Phase-IA at a total cost of Rs.162.8 Million (Rs. One Hundred Sixty Two million and Eight Hundred Thousand) comprising Revenue Costs to be undertaken by obtaining budgetary approval from OGRA.

c) Carrying out Phase-2 of the project after the completion of Phase-1 (IA–IB) at a total cost of Rs.132.98 Million (Rs. One Hundred Thirty Two million and Nine Hundred Eighty Thousand) comprising Revenue Costs to be undertaken by obtaining budgetary approval from OGRA.

d) Enhancement in the cost of Phase-1B and Phase-2 of the project on account of currency fluctuation / inflation, if required at later stage will be sought at inception or during its execution as the said project Phases (Phase-1 B & Phase-2) are to commence after completion of Phase-I A.

e) In view of the fact that the breakup of the total project cost in different heads/components is tentative in nature, Management was allowed to reallocate the budget within different heads (if required) keeping overall expenditure within the total proposed project cost.

f) However, the Management was allowed to initiate the processes for material procurement and hiring of resources immediately due to importance of the Project. However, Purchase Orders/resources engagements shall be executed upon receipt of OGRA's approval;

The Managing Director was authorized to take or cause to be taken all the necessary steps to give effect to the above decision.

You are requested to please take further action in this regard. The detailed minutes are under preparation and would be communicated after clearance by the Chairperson, Board of Directors.

(IMTIAZ MEHMOOD)
Company Secretary

cc: MD
CFO

SUI NORTHERN GAS PIPELINES LIMITED

Note to Directors

From: Managing Director

Note No.7323

Dated: December 24, 2020

AGENDA FOR THE 565TH MEETING OF THE BOARD OF DIRECTOR - ITEM-H

GIS MAPPING PROJECT OF GAS INFRASTRUCTURE

This item of the agenda was submitted at the 315th meeting of the Finance and Procurement Committee of Directors held on December 18, 2020. Recommendations of the F&PC are attached.

(IMTIAZ MEHMOOD)
Company Secretary

EXTRACT FROM THE DRAFT MINUTES OF THE 315TH FINANCE AND PROCUREMENT COMMITTEE OF DIRECTORS HELD ON DECEMBER 18, 2020

5. ITEM-E GIS MAPPING PROJECT OF GAS INFRASTRUCTURE.

5.9 After detailed deliberation, the Finance and Procurement Committee in line with the recommendation of the Management recommended to the Board of Directors to accord approval in respect of:

a) Carrying out above proposed GIS mapping Project's Phase-IA at a total cost of Rs.213.72 Million (Rs. Two Hundred Thirteen million and Seven Hundred Twenty Thousand) comprising Revenue Costs Rs.104.64 million and Capital Costs Rs.109.08 million to be undertaken by obtaining budgetary approval from OGRA.

b) Carrying out Phase-IB of the project after the completion of Phase-IA at a total cost of Rs.162.8 Million (Rs. One Hundred Sixty Two million and Eight Hundred Thousand) comprising Revenue Costs to be undertaken by obtaining budgetary approval from OGRA.

c) Carrying out Phase-2 of the project after the completion of Phase-I (IA+IB) at a total cost of Rs.132.98 Million (Rs. One Hundred Thirty Two million and Nine Hundred Eighty Thousand) comprising Revenue Costs to be undertaken by obtaining budgetary approval from OGRA.

d) Enhancement in the cost of Phase-1B and Phase-2 of the project on account of currency fluctuation / inflation, if required at later stage will be sought at inception or during its execution as the said project Phases (Phase-1 B & Phase-2) are to commence after completion of Phase-I A.

e) 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.

SUI NORTHERN GAS PIPELINES LIMITED

Note to Directors | From: Managing Director

Note No. | Dated: 03-12-2020

AGENDA FOR FINANCE & PROCUREMENT COMMITTEE MEETING – ITEM NO. E

GIS MAPPING PROJECT OF GAS INFRASTRUCTURE

1. **Management Request/ Purpose/ Objective:**

GIS is the science of location combined with the analytical powers of computer technology, enabling its users to analyze any location-related issue ranging from simple feasibility study to complex planning jobs. In order to explore the potential advantages of full-fledge GIS in the SNGPL, ArcGIS Enterprise software has been procured and several tasks have been completed as pilot project. The detailed GIS project completion plan was presented in 41st RM & UFGCC meeting held on 10-11-2020, and after due deliberation the RM&UFGCC recommended to the F&PC for onward recommending to the Board of Directors to accord approval for its budget to undertake **Phase-1A** of In-house proposal at an estimated cost of **Rs.213.72 Million**, whereas **Phase-1B** at the cost of Rs. 162.80 Million shall be undertaken after completion of Phase-1A and Phase 2 at the cost of Rs.132.98 Million shall be undertaken after completion of Phase-1 (1A+1B), minutes of meeting are enclosed as **Annexure-A**.

Benefits Of Proposed GIS Project

The proposed GIS project as outlined above shall have the following major benefits;

1. Conventional paper maps of first 62 SMS clusters (6700 maps in total) will be digitally stored and retrieving any particular map will only take a few minutes.
2. After digitizing all 6700 maps, whole network of aforementioned 62 SMS clusters will be available as a seam-less integrated digital map, with no geo-metrical errors, ensured data security with proper backup/recovery.
3. Data (map) searching, retrieval, analysis, printing and reproduction all will take very minimal time/effort and involve minimal resources that may save 80% cost and time as compared to the existing conventional practice (**Annexure-B : Cost-Benefit Analysis**).
4. Enterprise GIS portal will be used to share digitized pipeline network across SNGPL, employees will access GIS portal on their computers by using Web browser without any need of additional software installation or intensive training.
5. Implementation of Enterprise GIS drastically improve working efficiency by saving valuable time and eliminating human errors, while enabling its users to effectively plan

rehabilitation or maintenance activities, manage/monitor their respective pipeline segments/areas/regions right on their desktop across SNGPL.

6. The Enterprise GIS is a game changer that will streamline and centralize all pipeline related information that may connect other enterprise systems already running in the organization.
7. The ultimate benefit of a full-fledged GIS is an integrated centralized infrastructure information i.e. TBS Service areas, SMS Service areas, Customer data, Pipeline network database and Corrosion related data to help in load management analysis, for controlling the UFG losses and addressing several other operational scenarios.
8. In recent Covid-19 pandemic and the crisis that emerged due to the Lock down, where employees risked their lives to run critical business operations, a well-established GIS is the answer to all such data availability requirements. Employees may retire/resign/decease but a comprehensive system will remain in its place to serve all stakeholders despite their location or time of the day.

2. **Financial Information:**

The project completion plan consist of two subsequent Phases (1 & 2). Details are as under;

Phase-1A Budget = Rs. 213.72 million
Phase-1B Budget (to be executed after completion of Phase 1A) = Rs. 162.80 million
Phase-2 Budget (to be executed after completion of Phase 1 (A+B)) = Rs. 132.98 million

3. **Brief Chronological History:**

Live demo of the Pilot GIS Applications/dashboards was presented along with way forward to complete the GIS mapping in the 50th UFGCC meeting dated 02-06-2020. The UFGCC Chairman advised to submit a comprehensive plan and need analysis of man power that was further presented in TIP meeting held at 27-08-20, wherein it was decided to prioritize first **62 SMS clusters** collectively contributing **85%** volumetric losses in overall company's volumetric loss (UFG) for digitizing their downstream gas network in GIS. These 62 SMS clusters include **113** SMSs covered in **6700** Distribution Layout maps that holds approx. 75% of SNGPL's total pipeline network. In line with the Worthy Director's advice for executing this mapping task, two options were considered either to undertake the project purely in-house or to consider out-sourcing. The In-house proposal is divided into Phases i.e. Phase-1 (1A&1B) and Phase-2. The scope of work was also shared with Survey of Pakistan (SOP) to seek their support/services and they estimated Rs.1412 Million to complete Phase-1 (1A+1B) of aforementioned project in 7.8 Years, summary of both proposals is enclosed as **Annexure-C** and detailed Agenda is enclosed as **Annexure-D**.

4. **Budget Information/ Impact on Revenue of the Company:**

Budgeted cost of Phase-1A is Rs. 213.72 million and for Phase 1B is Rs. Rs. 162.8 million and Rs. 132.98 million for Phase 2, details of the budget are enclosed as **Annexure -E**. Phase-1B shall be undertaken after the completion of Phase-1A, and Phase 2 shall be undertaken after the completion of Phase 1 (A+B). The project will be undertaken after the approval of OGRA. It is expected that OGRA will allow this cost in revenue requirement in the normal course of regulatory process.

5. **Risks Involved/ Mitigation Strategy:**

The proposal includes project-based employment of GIS professionals amounting to Rs. 73.58 million, Rs.137.32 million and Rs.117.18 million in Phase-1A, Phase-1B and

Phase-2 respectively. OGRA is expected to allow this HR cost specific to this project separately from Company's HR benchmark. There is a potential risk that OGRA may not allow this cost separate from HR benchmark and consequently cost exceeding the benchmark may have to be met out of profit.

6. **Conformance to Rules/Law:**

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

7. **Recommendations:**

It is recommended by the Management to Finance and Procurement Committee of Directors to consider and make recommendations to the Board of Directors for approval in respect of;

a) Carrying out above proposed *GIS* mapping *Project's* Phase-1A at a total cost of Rs.213.72 Million (Rs. Two Hundred Thirteen million and Seven Hundred Twenty Thousand) comprising Revenue Costs Rs.104.64 million and Capital Costs Rs.109.08 million to be undertaken by obtaining budgetary approval from OGRA.
b) Carrying out Phase-1B of the project after the completion of Phase-1A at a total cost of Rs.162.8 Million (Rs. One Hundred Sixty Two million and Eight Hundred Thousand) comprising Revenue Costs to be undertaken by obtaining budgetary approval from OGRA.
c) Carrying out Phase-2 of the project after the completion of Phase-1 (1A+1B) at a total cost of Rs.132.98 Million (Rs. One Hundred Thirty Two million and Nine Hundred Eighty Thousand) comprising Revenue Costs to be undertaken by obtaining budgetary approval from OGRA.
d) Enhancement in the cost of Phase-1B and Phase-2 of the project on account of currency fluctuation / inflation, if required at later stage will be sought at inception or during its execution as the said project Phases (Phase-1B & Phase-2) are to commence after completion of Phase-1A.
e) 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)

(Asif Akbar Khan)
Sr. General Manager (BS)

(Faisal Iqbal)
Chief Financial Officer

(Sohail M. Gulzar)
Dy. Managing Director (Ops.)

(Amer Tufail)
Managing Director

223

93

Annex-A

SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

From: Company Secretary	To: GM (P&D) 26/11/20 Thru: SGM (ES)/DMD (OPS) on leave
Ref. CA/RM&UFG/4183 November 23, 2020	CONFIDENTIAL

EXTRACTS FROM THE DRAFT MINUTES OF THE 41ST MEETING OF THE RISK MANAGEMENT & UFG CONTROL COMMITTEE OF DIRECTORS

Please find below extract(s) from the draft minutes of the 41st meeting of the Risk Management & UFG Control Committee of Directors held on November 10, 2020 for your information and necessary action, **as well as for immediate response to the queries raised by the worthy Directors, if any, please.**

2. **ITEM-B IMPLEMENTATION STATUS OF DECISIONS TAKEN BY THE RISK MANAGEMENT & UFG CONTROL COMMITTEE AT ITS PREVIOUS MEETINGS.**

2.29 Syed Akhtar Ali in conjunction with Dr. Sohail Razi Khan, Members suggested to explore the possibility to adopt Internet of Things (IOT) integration of systems and seamless data flow. However, the Committee advised that at first stage Management should ensure integration of Industrial CMSs with SCADA and with the help of IT/MIS and Telecom departments ensure retrieval of seamless data from EVC installed at Consumers Meter station eliminating the human interference. The Management was also advised to explore EVC data module digital log at the back end to analyze the data at real time for seamless transaction both up front and at back end. The Committee further advised to complete the exercise by June 30, 2021.

2.32 The Committee advised the Management to provide detailed aging analysis pipeline network and provide the compiled data to GM (P&D) for onward integration in the GIS system and to tag the same at TBS level.

2.42 Dr. Sohail Razi Khan, Member suggested that each leaking point should be geo tagged to get its proper rectification. Incharge Corrosion confirmed that all available GPS devices have been provided to the survey teams, however, the process for acquiring additional GPS devices is under process. The Committee advised the Management to put its best efforts by arranging all possible equipments and resources for accomplishment of the given targets.

00000103

5. **ITEM-E GIS MAPPING PROJECT OF GAS INFRASTRUCTURE.**

5.1 GM(P&D) was called at the meeting to give presentation on GIS mapping project on gas infrastructure. GM(P&D) gave detailed presentation on the Company's Gas Network Diagram, Objectives of GIS, Completed Tasks, Live Demonstration of GIS Applications/ Dashboards and Way Forward/Project Completion Plan. The Members were also apprised about the benefits of Geographical Information System (GIS), achievements of the department, detailed comparison of In-house project plan with phases vs Survey of Pakistan (SOP) Plan. GM(P&D) informed that GIS development for Transmission network is 100% completed with all information available. Additional dash boards for Customer complaints data and CP leak detection points data is also geo-tagged in GIS. The ultimate goal of a full-fledged GIS is to integrate TBS Service area and SMS service areas with geo-tagged Customers and pipeline network database to help in load management and for controlling the UFG along with addressing several other operational issues. However, the objective of currently proposed project is to convert existing paper maps of Distribution Pipeline network to seamless digital maps (GIS) in order to integrate them with Customer database and other pipeline network related information using GIS technology. This would also help to create a paperless environment with reliable seamless data. The Members were informed that all new Supply main lines and planning of distribution network in new societies is being managed through GIS. The GIS mapping (with 4" and above distribution pipeline network) has been completed for some major cities of franchised areas, however, on the advice of worthy Director, Dr. Sohail Razi Khan, now the focus is being given on the first 62 SMS clusters (highest UFG contributors) to complete their GIS mapping. The worthy Director, Syed Akhtar Ali advised for creating TBS service area boundaries, where GM (UFGC-S) commented that TBS code is being linked with customer database, GM (P&D) assured that TBS service area boundaries will be created in GIS.

5.2 Chairperson inquired if any SOP or manual is established for flow of information to Planning & Development department for compiling the data. GM(P&D) responded in negative. It was advised to develop SOP for transferring of data in intact form to P&D department so that the integrity of data may be ensured. Moreover, shortcomings in the manual of P&D should also be removed. GM(P&D) assured to comply the directions.

5.3 GM(P&D) also gave live demonstration of the Operational dashboards created through GIS for the information of the members. The members were also apprised about the heat map established to find out the high leaking area, pointed out through 1199 complaints Cell along with the status of complaints redressal and data of theft cases.

5.4 The Committee highly appreciated the initiatives taken by the Management for customer complaints redressal. Managing Director informed the Members that the Company's initiatives w.r.t. customer complaints redressal have also been recognized by the Ministry of Energy (Petroleum Division) and the Company has continuously been on number 1 position for addressing the customers' complaints and responding to PMDU portal. Mr. Mohammad Haroon, Member suggested that the Management should strongly use its media for the Company's projection.

5.5 The Committee observed that despite making best efforts, the overall image of the Company has not been improved. Managing Director responded that due to pendency of 2.8 million applications and owing to low gas pressure issue especially during the winter months, the Company has to face criticism, besides making its best efforts. However, for creating awareness, Managing Director added that he has already been giving interviews to a number of TV channels and media campaign has also been launched. Moreover, on social media, the overall response is very overwhelming and the viewership of the media campaign has reached to 5 million viewers.

5.6 Syed Akhtar Ali, Member suggested that the Company should also explore to get the software for knowing the population of a specific area, which is available with PTCL and he would manage to arrange a meeting with PTCL for getting assistance from them. The worthy Member also suggested that for better data analysis, Report Generator software should be taken to get the desired reports from the available data.

5.7 GM(P&D) apprised the Members that the in-house project plan has been divided into two phases (I & II). Phase I is subdivided into IA and IB, where Phase IA covers 4" to 24" dia pipeline network mapping downstream of 113 SMSs of highest UFG prone areas at a total estimated cost of Rs. 213.72 million, while Phase IB covers 1" – 3" dia pipeline network mapping downstream of aforementioned 113 SMSs at a total estimated cost of Rs. 162.80 million. The GIS work on rest of 25% network shall be undertaken in Phase-II at a total estimated cost of Rs. 132.98 million, after completion of phase-I.

5.8 After due deliberation the RM&UFGC Committee recommended to the F&PC for onward recommending to the Board to accord approval for its budget for undertaking the Phase-IA of In-house proposal at an estimated cost of Rs. 213.72 million whereas Phase-IB at the cost of Rs. 162.80 million shall be undertaken after completion of phase1-A.

5.9 Dr Sohail Razi Khan, Member recorded his appreciation for the devoted efforts of GM(P&D) & his team and also appreciated the Managing Director for extending full support to P&D. Other Members also acknowledged the dedicated efforts of the Management.

These draft minutes have been circulated amongst the Directors after clearance by the Chairperson of the Risk Management & UFG Control Committee of Directors. Comments, if any, received from them will be communicated in due course of time.

(IMTIAZ MEHMOOD)
Company Secretary

cc: MD

226

Annex-B

96

Cost Benefit Analysis of Proposed GIS Project

S.No.	Task	Way of Working	Process	Human Resource (a)	Equipment (b)	Avg. Time (Days)	Avg. Cost Rs. (a + b)
1	New Map (DCM) Development	Current Conventional Practice/ Paper Map	1- Field Survey (on-foot) to draw sketch map of any location	Surveyor + Driver	Vehicle + Stationary + Plain Paper	21 to 35 = 27	(67500 + 45000) + 30000
			2- Onscale drawing of field sketch	Draughtsman	Stationary + Plain Paper + Drawing Table	7 to 14 = 11	27500
			3- Field Verification of Scaled Map & features	Surveyor + Driver	Vehicle + Stationary + Plain Paper	3	(7500 + 5000) + 5000
			4- Verified (Base) maps finalization/ tracing	Tracer – Officer	Stationary + Butter Paper	1	(2500 + 5000) + 500
			5- Storing finalized Base map (Butter Paper)	Record Keeper	Files + Cabinets	0.25	500 + 100
			6- Printing/ Copying base-map for network planning	Machine Operator	Ammonia machine + Stationary	0.5	200 + 3000
			7- Drawing proposed pipeline Network on base map Copies/Prints & send to concerned departments	Draughtsman	Stationary	1	2500 + 500
			8- Marking As-Laid pipeline network on finalized base map (Butter Paper)	Draughtsman	Stationary	1	2500 + 500
			9- Storing finalized Distribution Layout map	Record Keeper	Files + Cabinets	0.25	300 + 100
				Total = 7	Total = 8	Total = 45	Total = 203500
		Proposed GIS Technique/ Digital Map	1- Printing Satellite Imagery of a location for Surveyor	GIS Developer	Printer + Computer + Stationary	0.25	625 + 500
			2- Feature validation of printed imagery	Surveyor + Driver	Vehicle + GPS	1	(7500 + 5000) + 5000
			3- On-Screen Digitization of surveyed location (Base map)	GIS Developer	Computer	4	10000
			4- Storing finalized base map	GIS Developer	Computer	0.125	315
			5- Sharing Digital Map with concerned departments for network planning	GIS Developer	Computer + Printer + Stationary	0.25	625 + 500
			6- On-Screen Pipeline network digitization on stored base map	GIS Developer	Computer	2	5000
			5- Sharing Digital Map with concerned departments	GIS Developer	Computer	0.25	625
			6- Storing final Distribution Network map	GIS Developer	Computer	0.125	315
				Total = 3	Total = 5	Total = 10	36405

00000106

Summary of GIS Project Completion Plan

Phase	In-House Proposal								Survey of Pakistan's Proposal		
	SSMSs (63 Clusters)	MAPS / DLMs	Pipeline Network	Completion Time	SNGPL's Total Network %age	HR Cost Rs. Million	IT Infrastructure + Rental + Miscellaneous Cost Rs. Million	Total Cost Rs. Million	Data Development Cost Rs. Million	Contingency + Miscellaneous Cost Rs. Million	Total Cost Rs. Million
Phase 1 (A)	113	6700	4"- 24"dia	3 Year	35%	73.58	140.14	213.72	563.60	848.47	1412.08
Phase 1 (B)	143	6700	1"- 3"dia	4 Year	40%	137.32	25.48	162.80			
Total Phase 1 (A + B)	113	6700	1"- 24"dia	7 Years	75%	210.9	165.62	376.52	563.60	848.47	1412.08
Phase 2	[illegible]	2600	[illegible]	[illegible]	25%	117.18	15.8	[illegible]			
Total Phase 1 + Phase 2	449	9300	1"- 24" dia	9.5 Years	100%	328.08	181.42	509.5			

AGENDA TEMPLATE FOR BOARD MEETING 98

Annex-D

SUI NORTHERN GAS PIPELINES LIMITED

Note to Directors | From: Managing Director

Note No. | Dated: 03-11-2020

AGENDA FOR RISK MANAGEMENT AND UFG CONTROL COMMITTEE MEETING – ITEM NO.

GIS MAPPING PROJECT OF GAS INFRASTRUCTURE

1. **Management Request/ Purpose/ Objective:**

GIS is a revolutionary technology, being used globally for critical decision making, planning/monitoring and asset management particularly in the Public sector organizations. Implementation of GIS will drastically improve working efficiency by saving valuable time and eliminating human errors, while enabling its users to effectively plan rehabilitation or maintenance activities, manage/monitor their respective pipeline segments/areas/regions right on their desktop across SNGPL. P&D Department had started converting conventional maps to GIS as an in-house job with available limited resources, and presented their work and highlighted completed tasks in 50th UFGCC Meeting held at 02.06.2020. It was also informed that additional resources i.e. HR, IT equipment and Space etc. shall be required for earliest completion of mapping job. In this regard Chairman UFGCC advised to submit a comprehensive plan and need analysis of man power. Further, in TIP meeting held at 27-08-20, it was decided to prioritize Highest UFG-wise **62 SMS clusters** for digitizing their downstream gas network in GIS. SNGPL has planned its GIS project to be completed in 02 Phases. Phase 1 comprises GIS development work of distribution network downstream of 113 SMSs out of 449 SMSs which is 75% of the Company's total network, while balance 25% of the Company's network falls in Phase 2. Phase 1 is further divided into 1A & 1B, 1A covers 4" and above dia network that shall be completed in 03 years, while 1B covers 1" to 3" dia network that will be completed in next 04 years. Total 30 Human Resources have been planned to undertake Phase 1A.

2. **Financial Information:**

In-house project plan consist of two subsequent Phases (1 & 2), whereas Phase 1 is further divided into Phase 1A and Phase 1B. Details are as under:

Phase 1 (1A + 1B) Total Budget	= Rs. 376.52 million
Phase 2 Budget (to be executed after the completion of Phase 1)	= Rs.132.98 Million

3. **Brief Chronological History:**

So far several crucial milestones have been achieved, the Supply-mains and Transmission lines planning & proposal development job is shifted exclusively on GIS maps. GIS development for Transmission network is 100% completed. The Distribution network's

99

GIS is in its foundation stage, where Maps of some major cities (i.e. Lahore, Shiekhupura, Islamabad, Rawalpindi and Sahiwal) are completed with pipeline network 4" and above diameter. In order to share and to centralize all pipeline infrastructure-related data, ArcGIS Enterprise software has been installed on Company's server. Web GIS Applications and interactive dashboards created through Enterprise GIS are facilitating SNGPL's management in decision making and monitoring Customer Complaints (1199), Defaulter Customers, Gas Theft Cases and Leak Detection through interactive concentration/heat maps.

Budget estimates have also been taken from the Survey of Pakistan who are already engaged in similar jobs. They have submitted Rs. 1412.08 Million cost estimate for undertaking Phase 1 job whereas SNGPL has worked out its cost amounting Rs. 376.52 Million for the same.

4. **Budget Information/ Impact on Revenue of the Company:**
   Budget amounting to Rs. 376.52 Millions (for undertaking Phase 1) is required for additional resources. Phase 2 shall be undertaken after the completion of Phase 1.

5. **Risks Involved/ Mitigation Strategy:**
   None.

6. **Conformance to Rules/Law:**
   It is hereby certified by the management that all procedural, codal, legal and financial pre-requisites shall be fulfilled for completion of the project.

7. **Recommendations:**
   It is recommended by the management to consider the agenda and further recommend to the Board of Directors through Finance & Procurement Committee for its approval for undertaking the job in-house.

(Imran Yousaf Khan) General Manager (P&D)	03/11/20 **(Asif Akbar Khan)** Sr. General Manager (BS)	**(Faisal Iqbal)** Chief Financial Officer

(Amer Tufail)
Managing Director

SUI NORTHERN GAS PIPELINES LIMITED

AGENDA FOR RISK MANAGEMENT AND UFG CONTROL COMMITTEE MEETING - ITEM NO.

GIS MAPPING PROJECT OF GAS INFRASTRUCTURE

Geographic Information System (GIS) is a revolutionary technology that is being globally implemented for critical decision making, planning/monitoring and asset management particularly in the Public sector organizations. GIS is the science of location combined with the analytical powers of computer technology, enabling its users to analyze any location-related issue ranging from simple feasibility study to complex planning jobs. Public sector organizations hold a larger service area that requires a robust monitoring & management system, and their decision support system is more reliable and accurate when aided with GIS because of accurate location based information. Generally GIS development process involves conventional maps scanning, geo-referencing, Geo-database designing and digitizing with tabular information and their superimposition on satellite imagery to produce accurate digital maps that provide wide array of analytical tools.

The SNGPL's pipeline network is the largest pipeline system of Pakistan sprawling over very large franchise area that was in dire need of an efficient solution like GIS for managing, monitoring, planning and decision making of such a complex network. In recent Covid-19 pandemic and the crisis that emerged due to the Lock down, where employees are risking their lives to run critical business operations, a well-established GIS is the answer to all such data availability requirements. Employees may retire/resign/decease but a comprehensive system will remain in its place to serve all stakeholder despite their location or time of the day. Implementation of Enterprise GIS drastically improve working efficiency by saving valuable time and eliminating human errors, while enabling its users to effectively plan rehabilitation or maintenance activities, manage/monitor their respective pipeline segments/areas/regions right on their desktop across SNGPL. An Enterprise GIS is a game changer to streamline and centralize all pipeline related information that may connect other enterprise systems already running in the organization.

So far we have successfully achieved several crucial milestones,. The Supply-main lines and Transmission lines planning & proposal development is shifted exclusively on GIS maps. GIS development for Transmission network is **100%** completed with all information available in Valve notations i.e. diameter, pipeline name, valve assembly, SMS, repeater Station, compressor station and Mile posts. The Distribution network's GIS is in its foundation stage, where Maps of some major cities (i.e. Lahore, Shiekhupura, Islamabad, Rawalpindi and Sahiwal) are completed with pipeline network 4" and above diameter by the existing **03** no. in-house GIS professionals. In order to share these digital maps with concerned employees across SNGPL and to centralize all pipeline infrastructure-related data, a state-of-the-art Enterprise GIS software (ArcGIS Enterprise) has been installed on Company's server. Web GIS Applications (for both Transmission and Distribution networks so far completed) are also developed that can be accessed on any user's desktops across SNGPL's franchise offices using web browser.

The dashboards created through Enterprise GIS are facilitating SNGPL's management in decision making and monitoring Customer Complaints (1199), Defaulter Customers, Gas Theft Cases and Leak Detection through interactive concentration/heat maps. GIS Web application can also provide CP protection levels concentration on existing pipeline network maps for a thorough analysis of existing CP protection status using CP Test point values along with many other analytical insights.

Live demo of GIS Applications/dashboards was presented in 50th UFGCC meeting dated 02-06-2020 along with way forward to complete the GIS mapping of distribution pipeline network within shortest possible time. It was advised by the UFGCC Chairman to submit a comprehensive plan and need analysis of man power. Further, in TIP meeting held at 27-08-20, it was decided to prioritize first **62 SMS clusters** collectively contributing **85%** volumetric losses in overall company's volumetric loss (UFG) for digitizing their downstream gas network in GIS. These 62 SMS clusters include 113 SMSs (**Annexure A**), whereas their downstream network is comprised of **6700** Distribution Layout maps that covers approx. **75%** of SNGPL's total pipeline network.

In-house Project Plan With Phases

Keeping in view the quantum of work involved and its earliest completion, a comprehensive plan has been prepared (**Annexure B**) to complete the mapping of aforementioned **62 SMS** clusters (downstream pipeline network). In this regard a team of **30** trained GIS Professionals (initially on extendable Contract base that may gradually be absorbed as Permanent Executives) shall be required to complete the planned jobs within stipulated time frame. Manpower need analysis is enclosed (**Annexure C**). The brief summary of completion plan is as following.

Summary of GIS Project Completion Plan (In- House) 113 SMSs/ 6700 Maps - Phase 1						
Phase 1	**Pipeline Network**	**Completion Time**	**SNGPL's Total Network %age.**	**HR Cost Rs. Million**	**I.T Infrastructure + Rental + Miscellaneous Cost Rs. Million**	**Total Cost Rs. Million**
1A	4"- 24"dia	3 Year	35%	73.58	140.14	213.72
1B	1"- 3"dia	4 Year	40%	137.32	25.48	162.80
Total	1"- 24" dia	7 Year	75%	210.9	165.62	376.52

Rest of the **25%** SNGPL network comprise of **336 SMSs** and **2600 Maps** can be taken up as **Phase 2** after completion of Phase 1, brief summary is as following:

Summary of GIS Project Completion Plan (In-House) 336 SMSs/ 2600 Maps – Phase 2						
Phase	**Pipeline Network**	**Completion Time**	**SNGPL's Total Network %age**	**HR Cost Rs. Million**	**IT Infrastructure + Rental + Miscellaneous Cost Rs. Million**	**Total Cost Rs. Million**
2	1"- 24"dia	2.5 Year	25%	117.18	15.8	132.98

Breakup of the budgeted cost is enclosed as **Annexure-D**.

Enhancement in the cost of Phase 2 of the project may be sort on account of currency fluctuation/inflation if any at that time, as the Phase 2 is to commence after the completion of Phase 1.

Survey of Pakistan (SOP) Plan

Aforementioned scope of work was also shared with Survey of Pakistan (SOP), who are also engaged in similar jobs vide Letter No. P&D/02-14257 dated: 12.09.2020 (**Annexure E**) to sought their support and proposal. Several detailed meetings during last two months (Sep-Oct 2020) were held with SOP's technical team to clarify the scope of work following which they provided complete proposal covering cost and timelines with **567** Human resources that is enclosed as **Annexure F**, a brief summary is as following:

232

Survey of Pakistan (SOP)'s Proposal Summary of GIS Project Completion 113 SMSs/ 6700 Maps						
Phase	Pipeline Network	Completion Time	SNGPL's Total Network %age	HR Cost Rs. Million	IT Infrastructure + Rental + Miscellaneous Cost Rs. Million	Total Cost Rs. Million
1	1"- 24"dia	7.8 Year	75%	745.78	666.33	1412.08

Summary:

In- House Proposal	Survey of Pakistan (SOP) Proposal
6700 Sheets (1"to 24") in 7 Years	6700 Sheets (1"to 24") in 7.8 Years
Cost = Rs. 376.52 Million	Cost = Rs.1412.08 Million

It is evident from above that In-House proposal is most feasible solution that will utilize optimal resources to complete the aforementioned mapping task in stipulated timeframe.

Recommendation:

It is recommended by the management to consider the agenda and if deemed appropriate further recommend to the Board of Directors through Finance & Procurement Committee for its approval for undertaking the job in-house.

03/11/20

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

(Asif Akbar Khan)
Sr. General Manager (ES)

(Faisal Iqbal)
Chief Financial Officer

on leave

(Sohail M. Gulzar)
Dy. Managing Director (Ops.)

(Amer Tufail)
Managing Director

233

ANNEX: A

103

UFG Volume Wise First 62 SMS's Clusters Contributing to 85% Volumetric Losses

Cluster No.	Sr. No.	Region	SMS
1	1	Lahore East/ West	B-3 Shahdara
	2	Lahore East/ West	SMS II
	3	Lahore East/ West	SMS III
2	4	Peshawar	Peshawar
	5	Peshawar	Khazana
	6	Peshawar	Pabbi
	7	Peshawar	New Pabbi
	8	Peshawar	Regi Model Town
3	9	Islamabad/Rawalpindi	Ranjal
	10	Islamabad/Rawalpindi	Rawat
	11	Islamabad/Rawalpindi	Naughazi
	12	Islamabad/Rawalpindi	Nilore
	13	Islamabad/Rawalpindi	CMH / MH
4	14	Faisalabad	Faisalabad IV
	15	Faisalabad	Faisalabad I
	16	Faisalabad	Faisalabad III
	17	Faisalabad	Gutwala (I+II)
	18	Faisalabad	Faisalabad VI
	19	Faisalabad	Millat Town
	20	Faisalabad	Small Indus (V)
5	21	Multan	Multan I
	22	Multan	Multan V
	23	Multan	Multan IV
	24	Multan	Multan Wapda
	25	Multan	Indus. Estate
	26	Multan	Jahangirabad
6	27	Gujranwala	Gujranwala
7	28	Peshawar	Kohat
	29	Peshawar	Kohat Operational Phase
8	30	Mardan	Mardan
	31	Mardan	Premeir Sugar Mills
9	32	Sheikhupura	Punjab Steel
	33	Sheikhupura	GTPS Shahdara
	34	Sheikhupura	B-3 Shahdara

10	35	Islamabad/Rawalpindi	Bulien
	36	Islamabad/Rawalpindi	Chakwal
	37	Islamabad/Rawalpindi	Tamman
	38	Islamabad/Rawalpindi	Veera
	39	Islamabad/Rawalpindi	Satwal
	40	Islamabad/Rawalpindi	Ghugg Mor
11	41	Peshawar	Charsadda
	42	Peshawar	Rajjar
	43	Peshawar	Daulatpura
	44	Peshawar	Wali Bagh
12	45	Sheikhupura	Genral Industries
	46	Sheikhupura	Sheikhupura
	47	Sheikhupura	Bhikhi
13	48	Lahore East/ West	Manga Mandi
14	49	Multan	Muzaffar Garh City
	50	Multan	Shah Jamal
	51	Multan	Rohela Wali
	52	Multan	Chowk Parmit
15	53	Peshawar	Baran
16	54	Sargodha	Sargodha
17	55	Multan	Kabirwala
	56	Multan	Khanewal
	57	Multan	Nanakpur
18	58	Gujrat	Gujrat
19	59	Sialkot	Sialkot
20	60	Bahawalpur	Sadiqabad
21	61	Bahawalpur	Rahim Yar Khan
22	62	Islamabad/Rawalpindi	Wah
	63	Islamabad/Rawalpindi	H.M.C. Taxila
	64	Islamabad/Rawalpindi	Margalla Hills
23	65	Mardan	Takhtbhai
24	66	Lahore East/ West	Pattoki
25	67	Peshawar	Umer Zai
26	68	Lahore East/ West	Nishat Chunian
27	69	Bahawalpur	Bahawalpur
	70	Bahawalpur	Lodhran
28	71	Multan	Dera Ghazi Khan
	72	Multan	Shah Sadar ud Din
29	73	Mardan	Nowshera Cantt.
30	74	Mardan	Sakha Kot

31	75	Islamabad/Rawalpindi	Gujar Khan
	76	Islamabad/Rawalpindi	Pindori
32	77	Islamabad/Rawalpindi	Sanjwal (Attock)
	78	Islamabad/Rawalpindi	Kamra
33	79	Peshawar	Hangu
34	80	Sialkot	Daska
35	81	Islamabad/Rawalpindi	Sarai Alamgir
	82	Islamabad/Rawalpindi	Jhelum
36	83	Mardan	Noshera Kalan
37	84	Multan	Tiba Sultan
38	85	Faisalabad	Chak Jhumra
39	86	Faisalabad	Jaranwala
40	87	Mardan	Swat and Sangota Line
41	88	Mardan	Risalpur
42	89	Mardan	Zaida
43	90	Gujranwala	Hafizabad
44	91	Gujranwala	Emnabad
45	92	Islamabad/Rawalpindi	Hazro
	93	Islamabad/Rawalpindi	Ghazi
46	94	Faisalabad	Chiniot
	95	Faisalabad	Pindi Bhattian
47	96	Sheikhupura	Farooqabad
48	97	Faisalabad	Toba Tak Singh
49	98	Sahiwal	Chowrasta Mian Khan
	99	Sahiwal	Depalpur
50	100	Islamabad/Rawalpindi	Daultala
51	101	Faisalabad	Samundri
	102	Faisalabad	Gojra
52	103	Islamabad/Rawalpindi	Pindi Gheb
53	104	Sheikhupura	Nankana Sahib
54	105	Peshawar	Dera Ismail Khan
55	106	Multan	Mian Channu
56	107	Lahore East/ West	Industrial Cluster (Head Baloki)
57	108	Faisalabad	Jhang
58	109	Sialkot	Badiana
59	110	Sargodha	Bhalwal
60	111	Gujranwala	Wazirabad
61	112	Gujranwala	Pindi Bhattian
62	113	Mardan	Akora Town

236

Cluster No.	Sr. No.	Region	SMS	DLM	Year 1 Quarter 1	Year 1 Quarter 2	Year 1 Quarter 3	Year 1 Quarter 4	Year 2 Quarter 1	Year 2 Quarter 2	Year 2 Quarter 3	Year 2 Quarter 4	Year 3 Quarter 1	Year 3 Quarter 2	Year 3 Quarter 3	Year 3 Quarter 4
1	1	Lahore East/West	B-3 Shadara	1282												
	2	Lahore East/West	SMS II		566/5700											
	3	Lahore East/West	SMS III		(1 SMS)											
2	4	Peshawar	Peshawar	671		1292/5700										
	5	Peshawar	Khazana	29		(4 SMSs)	1458/5700									
	6	Peshawar	Pabbi	26												
	7	Peshawar	New Pabbi	-												
	8	Peshawar	[illegible] Model Town	5												
3	9	Islamabad/ Rawalpindi	Rawal	421												
	10	Islamabad/ Rawalpindi	Rawat					2484/5700								
	11	Islamabad/ Rawalpindi	Naugran					(5 SMSs)								
	12	Islamabad/ Rawalpindi	Nilore	71												
	13	Islamabad/ Rawalpindi	CME / 501	1												
4	14	Faisalabad	Faisalabad IV	571												
	15	Faisalabad	Faisalabad I													
	16	Faisalabad	Faisalabad III													
	17	Faisalabad	[illegible] (CHI)													
	18	Faisalabad	Faisalabad VI													
	19	Faisalabad	Millat Town						3990/5700							
	20	Faisalabad	Small Indu. (V)	4					(17 SMSs)							
5	21	Multan	Multan I	133												
	22	Multan	Multan V													
	23	Multan	Multan IV													
	24	Multan	[illegible]													
	25	Multan	Indus. [illegible]													
	26	Multan	Jahangirabad	35						3336/5700						
6	27	Gujranwala	Gujranwala	374						(24 SMSs)						
7	28	Peshawar	Kohat	22												
	29	Peshawar	Kohat Operational Plant	3												
8	30	Mardan	Mardan	10												
	31	Mardan	Premier Sugar Mills	1												
9	32	Sheikhupura	[illegible] Steel	31												
	33	Sheikhupura	GTPS Shahdara	1												
	34	Sheikhupura	G-3 Shahdara	35												
10	35	Islamabad/ Rawalpindi	[illegible]	51												
	36	Islamabad/ Rawalpindi	Chakwal													
	37	Islamabad/ Rawalpindi	Tarnol													
	38	Islamabad/ Rawalpindi	Wah	2												
	39	Islamabad/ Rawalpindi	Sihala	5							4130/5700					
	40	Islamabad/ Rawalpindi	Chung Mor	9							(37 SMSs)					

Phase 1A

GIS Mapping Project Plan of 62 SMSs Clusters UFG Volume Wise (Calculated on the basis of 30 trained GIS Professionals for 4 inch and above diameter pipeline network)

06

237

Phase 1A

GIS Mapping Project Plan of 02 SMSs Clusters UFG Volume Wise (Calculated on the basis of 30 trained GIS Professionals for 4 inch and above diameter pipeline network)

11	41	Peshawar	Gamrotta	22												
	42	Peshawar	Bajya	9												
	43	Peshawar	Daulatpura	.												
	44	Peshawar	Wali Bagh	6												
13	45	Sheikhupura	Ghazi Industries	24												
	46	Sheikhupura	Sheikhupura	15												
	47	Sheikhupura	Yukka	7												
11	48	Lahore East/West	Khuda Karak	45												
14	49	Multan	Muzaffar Garh City	3												
	50	Multan	Shah Jamal	2												
	51	Multan	Bahadar Wali	1												
	52	Multan	Chowk Fraud	2												
15	53	Peshawar	Swara	7												
16	54	Sargodha	Sargodha	107												
17	55	Multan	Kabirwala	27												
	56	Multan	Khanewal	4												
	57	Multan	Mandipur	1												
18	58	Gujrat	Gujrat	98												
19	59	Sialkot	Sialkot	541												
20	60	Bahawalpur	Sadiqabad	34												
21	61	Bahawalpur	Rahim Yar Khan	45												
22	62	Islamabad/ Rawalpindi	Wah	88								4/9/07/60				
	63	Islamabad/ Rawalpindi	H.M.C. Taxila	79								(38 SMSs)				
	64	Islamabad/ Rawalpindi	Margalla Hills	64												
23	65	Mardan	Takhtbai	10												
24	66	Lahore East/West	Raiwind	35												
25	67	Peshawar	Umar Zai	31												
26	68	Lahore East/West	Mahal Chowk	82												
27	69	Bahawalpur	Bahawalpur	43												
	70	Bahawalpur	Lodhran	117												
28	71	Multan	Dera Ghazi Khan	3												
	72	Multan	Shah Sadar Din	1												
29	73	Mardan	Nowshera Cant	3												
30	74	Mardan	Sakha Kot	5												
31	75	Islamabad/ Rawalpindi	Gujar Khan	43												
	76	Islamabad/ Rawalpindi	Pindora	4												
31	77	Islamabad/ Rawalpindi	Sangjani (Attock)	32												
	78	Islamabad/ Rawalpindi	Kamra	34												
35	79	Peshawar	Utmanzai	1									3/62/07/60			
34	80	Sialkot	Daska	86									(27 SMSs)			
35	81	Islamabad/ Rawalpindi	Sang Jani	33												
	82	Islamabad/ Rawalpindi	Jhelum	23												

36	85	Mardan	Nowshera Kalan	3												
37	44	Multan	Gas Station	37												
38	93	Faisalabad	Chak Jhumra	42												
39	86	Faisalabad	Jaranwala	58												
40	87	Mardan	Swat and Bazgram Lit	15												
41	88	Mardan	Bisham	1												
42	89	Mardan	Zaida	28												
43	90	Gujranwala	Hafizabad	143												
44	31	Gujranwala	Eminabad	25												
45	91	Islamabad/ Rawalpindi	Hazro	60												
	53	Islamabad/ Rawalpindi	Chhach	4												
46	54	Faisalabad	Chiniot	58										5820/6100		
	94	Faisalabad	Pindi Bhattian	10										(93 SMSs)		
47	96	Sheikhupura	Farooqabad	19												
48	97	Faisalabad	Toba Tek Singh	65												
49	98	Sahiwal	Chichawatni Mian Khan	31												
	99	Sahiwal	Pakpattan	95												
50	100	Islamabad/ Rawalpindi	Daultala	42												
51	101	Faisalabad	Samundri	31												
	102	Faisalabad	Gojra	20												
52	103	Islamabad/ Rawalpindi	Pindi Gheb	4												
53	104	Sheikhupura	Nankana Sahib	8												
54	105	Peshawar	Dera Ismail Khan	3												
55	106	Multan	Mian Channu	11												
56	107	Lahore East/West	Industrial Cluster (Head Baloki)	28												
57	108	Faisalabad	Jhang	85												
58	109	Sialkot	Daska	135												
59	110	Sargodha	Bhalwal	39											6360/6700	
60	111	Gujranwala	Wazirabad	63											(108 SMSs)	
61	112	Gujranwala	Pindi Sharian	118												
62	113	Mardan	Attock Town	3												
																6700/6700
																(111 SMSs)

Phase 1A

GIS Mapping Project Plan of 62 SMSs Clusters UFG Volume Wise (Calculated on the basis of 30 trained GIS Professionals for 4 inch and above diameter pipeline network)

239

Cluster No.	Sr. No.	Region	SMS	DLM	Year 1				Year 2				Year 3				Year 4			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1	1	Lahore East/West	B-3 Shahdara	1233																
	2	Lahore East/West	SMS II		4106700															
	3	Lahore East/West	SMS III		(1 SMS)	8346700														
2	4	Peshawar	Peshawar	371		(2 SMSs)	12538700													
	5	Peshawar	Kimeena	26																
	6	Peshawar	Pabbi	33				13666700	25356700											
	7	Peshawar	New Jabba	–				(3 SMSs)												
	8	Peshawar	Regi Model Town	6																
3	9	Islamabad/ Rawalpindi	[illegible]	421																
	10	Islamabad/ Rawalpindi	Rawat																	
	11	Islamabad/ Rawalpindi	Naugran																	
	12	Islamabad/ Rawalpindi	Dhoru	14						25016700										
	14	Islamabad/ Rawalpindi	CMH/JKSF	1						(10 SMSs)										
4	14	Faisalabad	Faisalabad IV	511																
	15	Faisalabad	Faisalabad I																	
	16	Faisalabad	Faisalabad III																	
	17	Faisalabad	Gatwala (Fell)																	
	18	Faisalabad	Faisalabad VI								29196700									
	19	Faisalabad	Millat Town								(15 SMSs)									
	20	Faisalabad	Small Indus. (V)	4																
5	21	Multan	Multan I	223																
	22	Multan	Multan V																	
	23	Multan	Multan IV																	
	24	Multan	Multan Piyala									33356700								
	25	Multan	Indus. Estate									(21 SMSs)								
	26	Multan	Jahangirabad	15																
6	27	Gujranwala	Gujranwala	276																
7	28	Peshawar	Kohat	22																
	29	Peshawar	Kohat Operational Base	1									37536700							
8	30	Mardan	Mardan	30									(28 SMSs)							
	31	Mardan	Premier Sugar Mills	1																
9	32	Sheikhupura	Punjab Steel	34																
	33	Sheikhupura	GTRE Shahdara	1																
	34	Sheikhupura	B-3 Shahdara	36																
	35	Islamabad/ Rawalpindi	Bahra	1																
	36	Islamabad/ Rawalpindi	Chakwal																	
	37	Islamabad/ Rawalpindi	Daman																	
	38	Islamabad/ Rawalpindi	Wang	1																
	39	Islamabad/ Rawalpindi	Sang	4																
	40	Islamabad/ Rawalpindi	Fringe Ider	9																

Phase 1B

GTS Mapping Project Plan of 82 SMSs Clusters UFG Volume Wise (Calculated on the basis of 30 trained GIS Professionals for 1 inch and above diameter pipeline network)

00000110

11	41	Peshawar	Charsada	12																
	42	Peshawar	Rajjar	9																
	43	Peshawar	Chatbagum	-																
	44	Peshawar	Wali Bagh	5																
12	45	Sheikhupura	Chand Industries	24										4168/6700						
	46	Sheikhupura	Sheikhupura	35										(40 SMSs)						
	47	Sheikhupura	Bhikhi	7																
13	48	Lahore East/West	Manga Mandi	41																
14	49	Multan	Muzaffar Garh City	2																
	50	Multan	Shah Jamal	2																
	51	Multan	Ruhela Wali	1																
	52	Multan	Chowk Sarwar	7																
15	53	Peshawar	Bannu	8																
16	54	Sargodha	Sargodha	137																
17	55	Multan	Kabirwala	37																
	56	Multan	Khanewal	4																
	57	Multan	Mianspur	1																
18	58	Gujrat	Gujrat	85																
19	59	Sialkot	Sialkot	241																
20	60	Bahawalpur	Sadiqabad	84																
21	61	Bahawalpur	Rahim Yar Khan	45											4885/6700					
22	62	Islamabad/ Rawalpindi	Wah	68											(58 SMSs)					
	63	Islamabad/ Rawalpindi	H.M.C. Taxila	23																
	64	Islamabad/ Rawalpindi	Margalla Hills	49																
23	65	Mardan	Takhtbhai	10																
24	66	Lahore East/West	[illegible]	55												5302/6700				
25	67	Peshawar	Utman Zai	31												(63 SMSs)				
26	68	Lahore East/West	Nishat Colony	12																
27	69	Bahawalpur	Bahawalpur	43																
	70	Bahawalpur	Lodhran	67																
28	71	Multan	Dera Ghazi Khan	3																
	72	Multan	Shah Bazar ur Din	1																
29	73	Mardan	Nowshera Cantt	1																
30	74	Mardan	Sakha Kot	9																
31	75	Islamabad/ Rawalpindi	Gujar Khan	41																
	76	Islamabad/ Rawalpindi	[illegible]	4																
32	77	Islamabad/ Rawalpindi	Sanjwal (Attock)	32																
	78	Islamabad/ Rawalpindi	Kamra	14																
33	79	Peshawar	Hangu	1																
34	80	Sialkot	Daska	96																
35	81	Islamabad/ Rawalpindi	Sarai Alamgir	15																
	82	Islamabad/ Rawalpindi	Jhelum	13																
36	83	Mardan	[illegible] Kalla	1																

Phase 1B

GIS Mapping Project Plan of 62 SMSs Clusters UFG Volume Wise (Calculated on the basis of 50 trained GIS Professionals for 1 inch and above diameter pipeline network)

241

111

37	84	Kallan	Ola Kalan	37
38	85	Faisalabad	Chak Jhumra	140
39	86	Faisalabad	Jaranwala	50
40	87	Mardan	Sheikh and Sangala Hill	35
41	88	Mardan	Alipur	1
42	89	Mardan	Zaida	28
43	90	Gujranwala	Hafizabad	146
44	91	Gujranwala	Eminabad	29
45	92	Islamabad/ Rawalpindi	Kasur	60
	93	Islamabad/ Rawalpindi	Ghazi	3
46	94	Faisalabad	Chiniot	57
	95	Faisalabad	Pindi Bhattian	16
47	96	Sheikhupura	Ferozwala	35
48	97	Faisalabad	Toba Tek Singh	46
49	98	Sahiwal	Chichawatni/Mian Khan	81
	99	Sahiwal	Dipalpur	99
50	100	Islamabad/ Rawalpindi	Chakwal	42
51	101	Faisalabad	Samundri	23
	102	Faisalabad	Gojra	58
52	103	Islamabad/ Rawalpindi	Pindi Gheb	4
53	104	Sheikhupura	Sangla Sahib	8
54	105	Peshawar	Dera Ismail Khan	1
55	106	Multan	Mian Channu	34
56	107	Lahore East/West	Industrial Cluster (Head Baloki)	31
57	108	Faisalabad	Jhang	35
58	109	Sialkot	Narowal	155
59	110	Sargodha	Bhalwal	14
60	111	Gujranwala	Wazirabad	51
61	112	Gujranwala	Pind Bhattian	186
62	113	Mardan	Akora Town	3

[illegible]

(31 SMSs)

[illegible]

(33 SMSs)

62 (?)

(117 SMSs)

67 (?)

(62 SMSs)

Phase 1B
GIS Mapping Project Plan of 62 SMSs Clusters UFG Volume Wise (Calculated on the basis of 30 trained GIS Professionals for 1 inch and above diameter pipeline network)

Annexure - C

Human Resource Need Analysis for GIS Project

Job Description/ Major Task	Existing	Required	Qualification	Minimum Experience	Skill-set	Employment Status
GIS Project Lead/ Team & Project Management	01	-	PhD (GIS/ Geomatics)	20 years	GIS Project planning, Management & Execution, Specialized GIS/RS Skills	Permanent Executive (Existing)
GIS Expert/ Development Supervision	02	-	M.Phil/ MS (GIS/ Geomatics)	10 years	Expert GIS/RS Skills and Advance GIS Data Development Skills	Permanent Executive (Existing)
Senior GIS Developer/ Data processing & Quality Checking	01	05	MSc/ MS (GIS)	05 years	GIS Data Development Preferably In Pipeline Network, Advance GIS Data development Skills	Permanent Staff (Existing)/ Contract Executives (Required)
GIS Developer/ Data Development & data integration	0	06	MSc/ BS Hons. (GIS)	03 years	GIS Data Development Preferably Pipeline Network, Advance GIS Skills	Contract Executives (Required)
Junior GIS Developer/ Data Development/ GPS Surveying	0	18	MSc (GIS)	01 year	GIS Data Development Preferably Pipeline Network, Basic GIS Skills	Contract Executives (Required)
GIS Application Developer/ Web Application & Tools Development	0	01	BS (Computer Science)	03 year	Basic GIS Skills and Application Development	Contract Executives (Required)
GIS Proposal Maps Developer/ Scanning, Record management	02	-	Diploma in Drafting/ BS (GIS/ Computer Science)	01 Year	Basic GIS Data Development Skills	Casual Staff (Existing)
Total	06	30				

JUSTIFICATION

Total Number of Paper Maps (Approx.) = 6700 (UFG-Volume wise First 62 SMS clusters: 113 SMSs)
Time consumed By 01 Human Resource to Digitize 01 Map (Avg.) = 04 Days (4" & above network)
6700 Paper Maps by 30 Human Resources = 03 Years

EMPLOYMENT STATUS OF HUMAN RESOURCE

All GIS Professionals will be hired on Special Project Based Contract basis (extendable as per future needs), initially for a period of 03 years, after Completion of GIS mapping for 62 SMS clusters (4"& above network), hired human resources will be distributed among head office and all Regional offices to initiate next phase of GIS mapping (up to 1" diameter network digitization along with digitization of downstream network of remaining 15% SMS clusters). They will also responsible for user training for GIS implementation and future GIS development tasks at their respective posting locations. After 03 years these well trained GIS Professionals may gradually be absorbed in SNGPL's Executive cadre as Permanent employees for each Regional Office as well as Head Office (subject to availability of vacancies and HR Policy).

EXISTING RESOURCES FROM REGIONAL OFFICES

Existing human resources from Regional offices will be involved in the project for paper maps scanning and GPS surveying of Valves, DSS and TBS. Scanners and GPS devices are already provided to all Regional Offices. Regional staff will also verify the digitized plan and network layout & connectivity.

243

113

Budgetary Estimates of Phase -1

Phase - 1 A : 4"to 24"dia Network

A- Human Resource Cost

S.No.	Item	Cost (Rs. Million)
1	01 month Salary of 18 Junior GIS Developers @ Rs.0.05 Million/month	0.9
2	01 month Salary of 06 GIS Developers @ Rs. 0.0725 Million	0.435
3	01 month Salary of 05 Senior GIS Developers @ Rs. 0.0875 Million	0.4375
4	01 month Salary of 01 GIS Application Developer	0.08
5	Year 01 Total Salary (12 months) (1+2+3+4)	22.23
6	Year 02 Total Salary (Year 01 X 10%)	24.453
7	Year 03 Total Salary (Year 02 X 10%)	26.8983
8	Total 36 months salary (5+6+7)	73.58

B- Space Rental/Utility Estimates

S.No.	Item	Cost (Rs. Million)
1	01 month Space Rental for 3000 Sq.ft @ Rs. 0.00012 Million/Sq.ft	0.36
2	01 month Utility Expense for 3000 Sq.Ft @ Rs. 0.00005 Million/Sq.ft	0.15
3	01 month total Expenses (1+2)	0.51
4	36 months Total Expenses (3X36)	18.36

C- Furniture Equipment Estimate

S. No.	Item	Cost (Rs. Million)
1	30 Workstation Tables with Ergonomic Chairs @ Rs. 0.06 million	1.8
2	02 Executive Tables with Cabinets @ Rs. 0.19 Million	0.38
3	05 Visitor chairs @ Rs. 0.016 Million	0.08
4	01 Conference Table	0.05
5	Total Furniture Cost (1+2+3+4)	2.31

D- IT Infrastructure

S.No.	Item	Cost (Rs. Million)
1	30 + 2* Desktop/Workstation Computer @ Rs. 0.325 Million	10.4
2	01 Network Switch and Allied Equipment	0.55
3	30 + 2* UPS for Computers @ Rs. 0.03 Million	0.96
4	06 Portable Hard Drives (4TB Each) @ Rs. 0.03 Million	0.18
5	01 A3 B&W Printer	0.5
6	**Total Infrastructure Expense (1+2+3+4+5)**	**12.59**

* 2 Workstations Required for Database management

E- Miscellaneous Items

S.No.	Item	Cost (Rs. Million)
1	42/44 Inches Color Plotter (01)	1
2	Stationary & Paper (A3/A4 , 42/44 Inches Paper Rolls)	0.7
3	Pedestal Fans (08) @ Rs. 0.01 Million	0.08
4	Paper Shredder (02) @ Rs. 0.05 Million	0.1
5	High Resolution Satellite imagery (150000 Sq. Km)	75
6	Vehicle for survey/official visits (02) @ Rs. 9 Million	18
7	THA/Fuel/ Vehicle Maintenance Cost	12
8	Total Miscellaneous Expense (1+2+3+4+5+6+7)	106.88

Total Phase 1-A Cost (A+B+C+D+E)	213.72

244

114

Phase -1 B : 1"to 3"dia Network

A- Human Resource Cost

S.No.	Item	Cost (Rs. Million)
1	Year 01 Total Salary	29.59
2	Year 02 Total Salary (2 X 10%)	32.54
3	Year 03 Total Salary (3 X 10%)	35.8
4	Year 04Total Salary (4 X 10%)	39.39
5	**Total 48 months salary (1+2+3+4)**	137.32

B- Space Rental/Utility Estimates

S. No.	Item	Cost (Rs. Million)
1	01 month Space Rental for 3000 Sq.ft @ Rs. 0.00012 Million/Sq.ft	0.36
2	01 month Utility Expense for 3000 Sq.Ft @ Rs. 0.00005 Million/Sq.ft	0.15
3	01 month total Expenses (1+2)	0.51
4	**48 months Total Expenses (3X48)**	24.48

C- Miscellaneous Items

S.No.	Item	Cost (Rs. Million)
1	Stationary & Paper (A3/A4 , 42/44 Inches Paper Rolls)	1
2	**Total Miscellaneous Expense**	1

Total Phase 1-B Cost (A+B+C)	162.8
Total Phase 1 Cost (1A + 1B)	376.52

Budgetary Estimates of Phase -2

Phase -2 (1"to 24'dia Network)

A- Human Resource Cost

S.No.	Item	Cost (Rs. Million)
1	Year 01 Total Salary	43.32
2	Year 02 Total Salary (1 X 10%)	47.65
3	Year 2.5 Total Salary (2 X 10%)	26.21
4	**Total 30 months salary (1+2+3)**	117.18

B- Space Rental/Utility Estimates

S.No.	Item	Cost (Rs. Million)
1	01 month Space Rental for 3000 Sq.ft @ Rs. 0.00012 Million/Sq.ft	0.36
2	01 month Utility Expense for 3000 Sq.Ft @ Rs. 0.00005 Million/Sq.ft	0.15
3	01 month total Expenses (1+2)	0.51
4	30 months Total Expenses (3X30)	15.3

C- Miscellaneous Items

S.No.	Item	Cost (Rs. Million)
1	Stationery & Paper (A3/A4 ; 42/44 Inches Paper Rolls)	0.5
2	**Total Infrastructure Expense**	0.5

Total Phase 2 Cost (A+B+C)	132.98

ANNEX E

116 246

SUI NORTHERN GAS PIPELINES LIMITED

Ref: P&D/02- 14257

Date: 12.09.2020

The Surveyor General of Pakistan,
Faizabad - Murree Road,
Rawalpindi.

GIS MAPPING OF SNGPL'S GAS PIPELINE NETWORK

Dear Sir,

SNGPL is the largest natural gas utility Company of the country engaged in supply of natural gas to its consumers at their door step located in its franchise area i.e. Punjab, KPK and AJK.

SNGPL is working on their GIS mapping project to digitize all of their Pipelines Network up to House-level, for effective Pipeline management, planning and rehabilitation using Enterprise GIS solution. SNGPL's pipeline network is composed of approx. 135,857 Km of gas distribution pipeline network and 9,106 Km of transmission pipeline network. So far we have completed our transmission pipeline network mapping and successfully implemented it through Enterprise GIS solution using our in-house resources and expertise. Our distribution pipeline network comprising approx. 9300 number of distribution layout maps (DLMs) sprawling over its franchise area. Keeping in view the quantum of work in hand, large resources are required for its earliest completion, therefore, SNGPL would like to explore the possibility of using support for the digitization of aforementioned distribution layout maps for its completion in the most earliest time.

In this connection, it has been learnt that Survey of Pakistan has also expertise in digitization of maps and some digitized gas pipeline network is also available with them which may please be shared with us for checking its utilization in our operational functions. Moreover, please arrange to provide us a detailed proposal about Survey of Pakistan's services for the subject matter covering the total cost and minimum possible time line for the completion of tasks as per following work scope:

1. Scanning & Geo-referencing of 9300 No. DLMs paper maps, with proper naming convention for all 16 gas distribution regions of SNGPL covering cities and localities of its franchise area.
2. Provision of seamless & cloud free high resolution satellite imagery (0.5 / 0.3 Meters and not older than six months) to be used as a base map for geo-referenced paper maps & digitized pipeline network covering the cities and localities of its franchise area.
3. Digitization of distribution pipeline network maps up to house level on 1: 1000 scale (including pipeline network, road network up to street level, land parcels and locations) along with their associated attributes.
4. Attributes entry / integration with digitized distribution pipeline network including but not limited to pipeline attributes (diameter, aging, pipeline name, from-to, pressure etc.), SMS(above ground metering station) / TBS & DRS (above ground regulation stations) attributes (name, location, size, fitting information, inlet / outlet pressure, date of commissioning / installation, off take information), fittings attributes i.e. valves, reducers and tees (name, location, size, location i.e. over head or underground, flow information etc.) and CP station attributes.

Contd...

SUI NORTHERN GAS PIPELINES LIMITED

5. Implementation of internationally recognized Utility Pipeline Data Model (UPDM) for Pipeline network digitization (enabling us to integrate GIS map with our existing Gas modeling/analysis software).

6. Geometric network development on digitized pipeline network for utility network analysis (flow modeling and connected / disconnected analysis).

In case of any clarification or some meeting is desired to discuss the matter, please feel free to contact us.

Looking forward to having your response at the most earliest.

Regards,

Yours faithfully,
SUI NORTHERN GAS PIPELINES LIMITED

(Imran Yousaf Khan)
General Manager (P&D)
For Managing Director

email: imran.yousaf@sngpl.com.pk
Tel: 042-99201376

ANNEXURE
GM (P&D)
29 OCT 2020
22437
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GOVERNMENT OF PAKISTAN
Ministry of Defence
Survey of Pakistan
Directorate Eastern Circle
Plot No. 50, Imtiaz Shaheed Road, Near
C.M.H., Lahore Cantt.
Tele : 042-99223151 Fax: 042-99223152

No. 3566/40-O-Survey SNGPL
Dated: 28-10-2020.

To

The General Manager (P&D),
Sui Northern Gas Pipeline Limited,
Lahore.

Info: Deputy Surveyor General-I, Survey of Pakistan, Rawalpindi.

Sub: **GIS MAPPING OF SNGPL's GAS PIPELINE NETWORK:**

Ref:- SNGPL's letter No. P&D/02-14257, dated 02.09.2020.

Find enclosed herewith estimated cost of GIS Mapping of SNGPL's Gas Pipeline Network amounting to **Rs. 1,412,082,000/- (Rupees 1412.082 Million only)** duly approved by the competent authority. The cost estimates are prepared on **No Profit No Loss** basis being a Federal Govt. department.

2. The project will be taken up as per priority list (Region wise), which will be provided by SNGPL to execute the project ToR/MoU will be discussed/shared between technical teams of SOP & SNGPL for execution of the project.

3. Detail break up of project activities and cost are attached as desired for information and necessary action.

NADEEM AHMAD CH.
Director Eastern Circle
Survey of Pakistan, Lahore

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SUMMARY OF PAID FOR JOB …NGPL

SCOPE OF WORK

i. Total Area of Project	120000 Sq.km
ii. Area to be Surveyed in Phase-I	40000 Sq.km
iii. No.of Sheets on Scale 1:2000	40000 Sheets
iv. No.of DL-Maps	6700 Sheets/DL-Maps

SUMMARY OF TECHNICAL WORK:

		Cost
FIELD WORK:		
i. Provision of GPS Control for Geo-Refrencing of Satellite Image & DL-Maps	27000 Points	Rs. 15,535,554
ii. Provision of GPS Control for provision of coordinates for SMS,TBS, DRS & valves	25000 Points	Rs. 14,7[illegible]7,801
iii. Field Verification of selected area of project on scale 1:2,000	8000 sheets	Rs. 155,257,167
OFFICE WORK:		
i. Procurement of Satellite Imagery (0.5 M) of an area of 120000 sq.km		Rs. 420,000,000
ii. Scanning of DL Maps	6700 DL-Maps	Rs. 244,433
iii. Geo Refrencing of DL Maps & Images	6700 DL-Maps	Rs. 1,389,485
iv. GIS Mapping & Preparation of Attribute Data on Scale 1:2000	40000 sheets	Rs. 348,520,759
v. Updation/insertion of field collected data on scale 1:2,000 after Field Verification	8000 sheets	Rs. 27,888,679
vi. Cost of reproduction / printing on scale 1:2000	40000 sheets	Rs. 60,000,000
CONTIGENT EXPENDITURE:		
i. POL and Repairing charges of Vehicles employed for GPS Control	10 Nos. Vehicles	Rs. 4,900,000
ii. POL and Repairing charges of Vehicles employed for Field verification	10 Nos. Vehicles	Rs. 14,936,000
iii. Stationery Charges for office & field work for 40000 sheets		Rs. 2,000,000
iv. Shifting of Stores / instrument & equipment etc. for field work		Rs. 1,500,000
v. Others Miscellaneous (Data storage, software / hardware for PCs etc.		Rs. 3,500,000
GOVT. FEE: (Supervision / Over head Charges / Deposit work Allowance etc.		Rs. 321,641,349
	GRAND TOTAL:	Rs. 1,412,081,525
	SAY TOTAL (IN ROUND FIGURES)	Rs. 1,412,082,000

(Rupees 1412.082 Million only)

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Annex - E

BUDGET ESTIMATE

PHASE-IA

1- Capital Items

Sr. No.	Description	Cost (Rs. Million)
i	**Furniture Equipment**	
	30 Workstation Tables + 02 Executive Tables + 05 Visitor Chairs + 01 Conference Table	2.31
ii	**IT Infrastructure**	
	32 Computers + 32 UPS + 01 Network Switch + 06 Portable Hard Drives + 01 Printer	12.59
iii	**Miscellaneous**	
	01 Plotter, 08 Fans, 02 Paper Shredder, Satellite Imagery (150,000 Sq. Km), 02 Vehicles	94.18
	Total (i+ii+iii)	**109.08**

2- Revenue Items

Sr. No.	Description	Cost (Rs. Million)
i	**Human Resource**	
	36 Month Salary of 30 GIS Professionals	73.58
ii	**Space Rental/ Utility**	
	36 Month Rent + Utility for 3000 Sq.Ft	18.36
iii	**Miscellaneous**	
	Stationary, Maintenance	12.70
	Total (i+ii+iii)	104.64

Phase-IA : Total Cost 1 + 2	**213.72**

PHASE-IB

1- Capital Items

There is no capital cost involved.

2- Revenue Items

Sr. No.	Description	Cost (Rs. Million)
i	**Human Resource**	
	48 Month Salary of 30 GIS Professionals	137.32
ii	**Space Rental/ Utility**	
	48 Month Rent + Utility for 3000 Sq.Ft	24.48
iii	**Miscellaneous**	
	Stationary	01
	Total (i+ii+iii)	**162.8**

Phase-IB : Total Cost	**162.8**

Grand Total (Phase-IA + Phase-IB) (Rs. Million)= 376.52

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PHASE-2

1- Capital Items

There is no capital cost involved.

2- Revenue Items

Sr. No.	Description	Cost (Rs. Million)
i	**Human Resource**	
	30 Month Salary of 30 GIS Professionals	117.18
ii	**Space Rental/ Utility**	
	30 Month Rent + Utility for 3000 Sq.Ft	15.3
iii	**Miscellaneous**	
	Stationary	0.5
	Total (i+ii+iii)	132.98

Grand Total (Phase-1 + Phase-2) (Rs. Million) = 509.50

A-3
252

SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

From: Company Secretary	To: SGM-D (N)/ SGM –D(S)
	Thru: DMD (OPS)
Ref. CA/BOD-1/5164 February 18, 2021	

CONFIDENTIAL

ITEM-L INSTALLATION OF SMART METERING AT ISOLATED TBSs, WHICH ARE CURRENTLY WITHOUT METERS

(SHORT ORDER)

This is with reference to your letter no.SGMD:113/22/CS/1757 dated 15/02/2021 on the captioned subject. In this respect revised short order after making necessary correction as requested, is being issued as under.

The Board of Directors considered this agenda item at its 566th meeting held on February 13, 2021.

After detailed deliberation, the Board of Directors in line with the recommendation of the Finance and Procurement Committee given at its 316th meeting held on February 12, 2021 accorded approval for the following subject to completion of all relevant codal / procedural, legal and financial pre-requisites:

(i) **Rs. 3,345 Millions for FY 2021-22 for installation of Smart Metering.**

(ii) **Intimation of revised total amount pertaining to this activity to OGRA for considering it as part of ERR FY 2021-22.**

(iii) **In view of the fact that the breakup of the total project cost in different heads/components is tentative in nature, the Management was allowed to reallocate the budget within different heads (if required) keeping overall expenditure within the total proposed project cost.**

The Managing Director was authorized to take or cause to be taken all the necessary steps to give effect to the above decision.

You are requested to please take further action in this regard. The detailed minutes are under preparation and would be communicated after clearance by the Chairperson, Board of Directors.

(IMTIAZ MEHMOOD)
Company Secretary

cc: MD
cc CFO

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253

SUI NORTHERN GAS PIPELINES LIMITED

AGENDA FOR FINANCE & PROCUREMENT COMMITTEE MEETING

ITEM " "

Note to Directors.

From: Managing Director

Note No. :

Dated: 28-01-2021

INSTALLATION OF SMART METERING AT ISOLATED TBSs, WHICH ARE CURRENTLY WITHOUT METERS

1. MANAGEMENT REQUEST

Considering and recommending to BOD for allowing amount for Installation of Smart Metering (i.e. remote communication system) at 2,924 Isolated TBSs, which are currently without meters, in compliance of directions of RM&UFGCC of BOD, given in its 43rd meeting held on 21.01.2021.

2. FINANCIAL INFORMATION

An amount of Rs. 3,345 Millions will be required, which will be obtained from OGRA through Estimated Revenue Requirement (ERR) FY 2021-22, under the capital budget.

3. BRIEF CHRONOLOGICAL HISTORY

There are 5,678 TBSs/DRSs at our distribution network, which are categorized as follows:

Description		Cases (No)
Isolated	Metered *	822
	Which are currently without Meters	2,924
	Sub Total	3,746
Looped		1,932

*In the past, meters were installed at certain TBSs/DRSs for monitoring of different operating parameters, such as pressure and flow.

In compliance with direction of RM&UFGCC given in its different meetings, the company was pursuing following work plan for phase wise execution of planned activities:

1st Phase: (32 Isolated and Metered TBSs, *selected as Pilot Project*):

- TBS to Consumers Mapping in system (already completed on October, 2020).
- Updating GPS coordinates of TBSs in system (already completed on 15.12.2020)
- Monthly gas reconciliation of selected as Pilot Project w.e.f. Sep, 2020
- UFG Control activities for reducing UFG against TBSs selected as Pilot Project started w.e.f. Oct. 2020

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254

2nd Phase: (Comprising of remaining 790 Isolated and Metered TBSs):

- TBS to Consumers Mapping in system (already completed on 15.12.2020)
- Updating GPS coordinates of TBSs in system (already completed on 15.12.2020)
- Replacement of 377 defective meters from isolated-metered TBSs by 31.01.2021
- Monthly gas reconciliation of all 790 metered TBSs w.e.f. March, 2021

3rd Phase: (Comprising of 2,924 Isolated TBSs, where currently meters are not installed)

- TBS to Consumers Mapping in system (target data is 31.01.2021)
- Updating GPS coordinates of TBSs in system (target data is 31.01.2021)

At present, meters are not installed at 2,924 isolated TBSs. Company had planned phase wise installation of smart metering at these isolated TBSs. Accordingly, OGRA was requested through petition for Estimated Revenue Requirement (ERR) FY 2021-22 in December, 2020 to allow Rs. 920 Millions in the 1st tranche, which was to be followed by remaining.

As per advice of RM & UFGCC the company will also consider de-looping/segmentation of looped TBSs, for which detailed study will be required and initially, two looped TBS clusters from two different Regions are being selected.

4. **BUDGET INFORMATION / IMPACT ON REVENUE OF COMPANY**

The required amount of Rs. 3,345 Millions will be obtained from OGRA and company will be entitled to get Return on Asset (ROA).

5. **RISK INVOLVED / MITIGATION STRATEGY:**

i. The impact in the shape of UFG reduction will not be pronounced w.r.t. cost benefit analysis. That was the reasons TBS reconciliation was not part of our earlier two UFG reduction plans since same was not considered proportionately advantageous due to cost-benefit analysis and operational constraints in meter sizing and propensity of meter damages due to wide variation in line pressures because of supply demand gap. The RM&UFGCC, however observed that through TBS reconciliation, system visibility will be increased to pin point losses for subsequent reduction and facilitate ease of network operations.

ii. OGRA may completely disallow or partially allow the requested budget. The situation will become lucid after decision of ERR 2021-22, which is expected in May/June, 2021.

iii. The activity involves procurement of imported items such as meters, EVCs, GPRS system, valves, flanges, filter strainer etc. and each item has its own lead time for delivery. COVID-19 situation has adversely affected our supply chain in the past.

iv. Site work involves modification of existing TBSs/DRSs, which is cumbersome task as TBSs/DRSs are installed at congested locations/along busy roads etc. Moreover, land acquisition may also be required at certain locations.

Serial No. (iii) and (iv) will be mitigated through planning, while serial No. (ii) is the discretion of OGRA. However, company will actively pursue the matter with OGRA.

6. **CONFORMANCE TO RULES/LAWS:**

The Management confirms that transaction is as per policy and conforms to all legal/codal/ financial requirements in place.

7. **RECOMMENDATIONS:**

In compliance with directions of RM&UFGCC, given in its 43rd meeting held on 21.01.2021, Smart Metering will be installed at estimated cost of Rs. 3,345 Millions as follows:

- Rs. 3,184 Millions for installation of smart metering at 2,924 Isolated TBSs, which are currently without meters. Breakup is as under:

Meters, EVCs & GPRS etc.	=	2,228 Millions
Allied material (Valves; Flanges; Elbows etc.)	=	360 Millions
Construction Cost etc.	=	167 Millions
Land Acquisition	=	429 Millions
Total	=	3,184 Millions

- Rs. 161 Millions for installation of GPRS system at 615 Metered TBSs.

In this regard, the Management recommends to F&PC to consider and recommend to Board of Directors for allowing:

i. Rs. 3,345 Millions for FY 2020-21 for installation of Smart Metering, as stated above.
ii. Intimation of revised total amount pertaining to this activity to OGRA for considering it as part of ERR FY 2021-22.
iii. 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.

(QAISER MASOOD)
SR. GENERAL MANAGER (D-S)

(SAQIB ARSHAD)
SR. GENERAL MANAGER (D-N)

(FAISAL IQBAL)
CHIEF FINANCIAL OFFICER

(SOHAIL M. GULZAR)
DY. MANAGING DIRECTOR (OPS)

(ALI J. HAMDANI)
MANAGING DIRECTOR

SUI NORTHERN GAS PIPELINES LIMITED
GAS HOUSE, 21 KASHMIR ROAD, PO BOX 56, LAHORE (PAKISTAN)

25

Ref: RA-MISC-004-21

Date: March 01, 2021

Registrar,
Oil & Gas Regulatory Authority,
Plot # 54, ZTF Plaza, Fazal-e-Haq Road,
Near PIA Building, Blue Area,
Islamabad.

Thru: Courier

Subject: **GENERAL POWER OF ATTORNEY**

Dear Sir,

With reference to the above captioned subject. In this regard, it is submitted that Sui Northern Gas Pipeline Limited is pleased to authorize the undersigned through a registered General Power of Attorney to represent and act on behalf of the Company before the Oil and Gas Regulatory Authority.

Copy of the Registered General Power of Attorney is enclosed herewith for your information and record please.

Yours Sincerely,
Sui Northern Gas Pipelines Limited

(SYED M. ABDUL GHAFOOR)
CHIEF OFFICER (RA)
FOR MANAGING DIRECTOR

Encl as above:

OIL & GAS REGULATORY AUTHORITY
03 MAR 2021
Diary 1243
ISLAMABAD

Telephones Exch: +(92-42)99082000 / +(92-42)99082006 | Telephones: 042 - 99201398 | Fax: 042 - 99204424 | www.sngpl.com.pk

257

E-STAMP

PB-LHR-DECC5FE56BD3601D

Non-Judicial

Rs 1,225/-

Description	: POWER OF ATTORNEY - 48([illegible])
First Party / Principal	: SNGPL through Syed Ali Javaid Hamdani MD [90403-0107677-7]
Second Party / Attorney holder	: Syed Muhammad Abdul Ghafoor [illegible]
Agent	: Tahir Mushtaq [illegible]
Stamp Duty Paid by	: SNGPL through Syed Ali Javaid Hamdani MD [90403-0107677-7]
Issue Date	: 25-Jan-2021, 01:26:5[illegible] PM
Paid Through Challan	: [illegible]
Amount in Words	: One Thousand Two Hundred and Twenty Five Rupees Only

GENERAL POWER OF ATTORNEY

By this Deed of Attorney given on 13th day of Feb 2021, I Syed Ali Javaid Hamdani s/o Mr. Farrukh Ali Hamdani, CNIC No. 90403-0107677-7, Managing Director/Chief Executive of Sui Northern Gas Pipelines Limited, incorporated under the Companies Act, 1913 (now the Companies Act, 2017) and having its registered office at Gas House, 21-Kashmir Road, Lahore (hereinafter referred as **"The Company"**) is authorized to execute this General Power of Attorney in terms of clause 27 of the General Power of Attorney executed in favour of the Managing Director of Sui Northern Gas Pipelines Limited duly registered with the sub-registrar Data Ganj Baksh Town, Lahore, having document No. 43, Book No. 4, Volume No. 311, dated 23.01.2021, to delegate to any person or persons all or any of the powers conferred upon him. Now therefore, the Managing Director, SNGPL hereby appoints **Syed Muhammad Abdul Ghafoor, Chief Officer (Regulatory Affairs)**, to be its true lawful attorney to do or execute all or any 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 petition(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.

MANAGING DIRECTOR
CNIC No. 90403-0107677-7

E-STAMP
CONTINUATION SHEET

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.

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 13th day of Feb 2021 at Lahore.

MANAGING DIRECTOR
CNIC No. 90403-0107677-7

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

WITNESSES:

Muhammad Ali Chughtai
Senior Law Officer
Sui Northern Gas Pipelines Limited
21-Kashmir Road, Lahore.
CNIC No. [illegible]

Mr. Usman Abbasi
Law Officer
Sui Northern Gas Pipelines Limited
21-Kashmir Road, Lahore.
CNIC No. 35202-6800371-1

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آئل اینڈ گیس
ریگولیٹری اتھارٹی

Oil & Gas
Regulatory Authority

OGRA-6(2)-10/2021

March 4, 2021

The Managing Director,
Sui Northern Gas Pipelines Limited,
21-Kashmir Road,
LAHORE.

Subject: GENERAL POWER OF ATTORNEY

Dear Sir,

Please refer to your office letter No. RA-MISC-004-21 March 1, 2021 on the subject noted above.

2. It is to inform that the Authority during a Revenue Requirement hearing held at OGRA Office, Islamabad in May, 2020 strictly advised SNGPL to submit General Power of Attorney authoring an officer not less than the designation of Chief Financial Officer for filing a petition before the Authority for determination of its Revenue Requirement who is well conversant about the facts of the whole petition. In response thereto, SNGPL vide its letter dated 28-07-2021 (F/A) authorized CFO through a registered General Power of Attorney to represent and act on behalf of the SNGPL before Oil and Gas Regulatory Authority.

3. Now, SNGPL vide its letter No.RA-MISC-001-21 dated 01-03-2021 submitted a General Power of Attorney authorizing Chief Officer (RA) to represent the company in all proceedings before the Authority which does not merit the advice communicated by the Authority.

4. In view of the foregoing, it is advised to submit General Power of Attorney by authorizing an officer not less than the designation of CFO after soliciting approval from the Board of Directors of SNGPL, in order to represent the company before the Authority. Further, a Power of Attorney approved by Board of Directors of SNGPL in the name of newly appointed Managing Director may also be submitted (F/B), please.

Best Regards,

(Dr. Abdul Basit Qureshi)
Registrar
(For & on behalf of the Authority)

OIL & GAS REGULATORY AUTHORITY
ISSUED
04 MAR 2021
ISLAMABAD

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

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F/A

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PB-LHR-7914E70755F9819A

Non-Judicial

Rs 1,225/-

First Party / Principal : SNGPL through Amir Tufail [35202-2182023-9]
Second Party / Attorney Holder : Faisal Iqbal [35202-1648288-5]
Agent : Tahir Mushtaq [35202-2736774-5]
Stamp Duty Paid by : SNGPL through Amir Tufail [35202-2182023-9]
Issue Date : 19-Feb-2020, 03:15:44 PM
Paid Through Challan : 2020PCCA0025…
Amount in Words : One Thousand Two Hundred and Twenty Five Rupees Only

Please Write Below This Line

GENERAL POWER OF ATTORNEY

By this Deed of Attorney given on 10th day of July 2020, I Mr. Amer Tufail s/o Sardar Muhammad Tufail Khan, CNIC No. 35202-2182023-9, Managing Director and Chief Executive of Sui Northern Gas Pipelines Limited, incorporated under the Companies Act, 1913 (now the Companies Act, 2017) and having its registered office at Gas House, 21-Kashmir Road, Lahore alongwith another Director (hereinafter referred as "The Company") are authorized to execute this General Power of Attorney in terms of clause 27 of the General Power of Attorney executed in favour of the Managing Director of Sui Northern Gas Pipelines Limited, to delegate to any person or persons all or any of the powers conferred upon him. Now therefore, the Company hereby appoints **Mr. Faisal Iqbal, Chief Financial Officer**, to be its true lawful Attorney to do or execute all or any 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.

MANAGING DIRECTOR
CNIC No.

DIRECTOR
CNIC No.

261 E/B

SUI NORTHERN GAS PIPELINES LIMITED

CERTIFIED TRUE COPY OF RESOLUTION PASSED AT THE 516TH MEETING OF THE BOARD OF DIRECTORS HELD ON THURSDAY, JANUARY 10, 2019

IT IS HEREBY RESOLVED

THAT the resignation of Mr. Amjad Latif as Managing Director be and is hereby accepted with effect from January 10, 2019 (A.N).

THAT Mr. Amer Tufail, Deputy Managing Director (Services) is hereby assigned the charge of the Managing Director of Sui Northern Gas Pipelines Limited, being the most senior official of the Company with effect from January 10, 2019 for a period of 90 days or till the appointment of a regular Managing Director whichever is earlier.

THAT Mr. Amer Tufail is hereby authorized to sign and approve all documents which normally require the Managing Director's approval.

THAT any two Directors be and are hereby authorized to sign the General Power of Attorney in favour of Mr. Amer Tufail on behalf of the Company, under the seal of the Company.

THAT the power of attorney executed in favour of Mr. Amjad Latif is hereby revoked.

Company Secretary
SNGPL

298

The Nation - 22-3-2021

آئل اینڈ گیس ریگولیٹری اتھارٹی

Oil & Gas Regulatory Authority
Government of Pakistan

OGRA

PUBLIC NOTICE

Petition Filed by Sui Northern Gas Pipelines Limited for Determination of its Estimated Revenue Requirement / Prescribed Prices for F.Y. 2021-22

Sui Northern Gas Pipelines Limited (the Petitioner) filed a petition before the Authority on December 31, 2020 under Section 8 (1) of the Oil and Gas Regulatory Authority Ordinance, 2002, read with Rule 4 (2) of the Natural Gas Tariff Rules, 2002, for Determination of its Estimated Revenue Requirements / prescribed prices for FY 2021-22. Subsequently, the Petitioner filed a revised petition for Determination of its Estimated Revenue Requirements / prescribed prices for FY 2021-22 on March 1, 2021. The Petitioner has projected an increase of Rs.1,415.91 per MMBTU including previous years' shortfall Rs.669.75 per MMBTU for F.Y. 2021-22 in normal business. Cost of RLNG diverted towards domestic sector has also been claimed at Rs.27,940 million as part of cost of gas.
The breakup of projected prescribed price in respect of natural gas is provided below:

PARTICULARS	The Estimates for F.Y. 2021-22 as per the Petition		
	Transmission	Transmission & Distribution	Transmission, Distribution & Sales.
	Rs. in Million		
Sales Volume (MMBTU)	-	-	379,409
Cost of Gas	-	-	191,172
Operating Cost	6,556	15,754	81,427
Depreciation	5,205	24,502	24,873
Return on Assets	2,982	26,151	25,212
Subsidy for LPG Air-Mix Projects	-	167	167
UFG Adjustment	-	-	(750)
Other Operating Income	(280)	(3,660)	(19,002)
Total Revenue Requirement	14,465	61,914	283,099
Sales Revenue at Current Prescribed Price	-	-	211,900
Total Shortfall in Revenue Requirement	14,465	61,914	71,199
Previous year Revenue Shortfall	-	-	254,108
Increase in Revenue Requirement Rs./MMBTU w.e.f. July 01, 2021	-		857.40

Besides above, the Petitioner has projected increase at Rs.137.47 per MMBTU w.e.f July 01, 2021 to cost of service for RLNG business for F.Y. 2021-22. Moreover, the exclusive rights held by the petitioner in its franchise areas i.e. Punjab & Khyber Pakhtoonkhawa have expired as per its license, however the petitioner has projected Rs.42,093 million for laying of 11,500 km distribution mains to connect various new towns and villages.

Oil & Gas Regulatory Authority invites all interested / affected persons including gas consumers and general public to furnish their comments, suggestions and intervention requests, within 14 days from the date of publication of this notice in terms of Rule 7 of the Natural Gas Tariff Rules, 2002. All correspondence in this connection may be addressed to Registrar, OGRA and should contain the names and addresses of applicant.

All interveners must indicate the manner in which they are likely to be affected by determination of the Authority in this case. Intervention request should be accompanied by an affidavit verifying the contents of the intervention, intervention fee of Rs.500/- (demand draft in favour of OGRA) and authority letter if representing an organization.

Copy of the petition can be obtained on payment of prescribed charges of Rs.2/- per page from the office of Registrar, OGRA, Islamabad. For any information required from the Petitioner, please contact:

Mr. Kamran Akram,
General Manager (RA),
Sui Northern Gas Pipelines Limited, 21-Kashmir Road
Lahore. Phone No. 042-99201356, Fax: 042-99204424

Registrar,
Oil & Gas Regulatory Authority
54-B Fazal-e-Haq Road, Blue Area, Islamabad.
Phone: 051-9244295, 051-9244090-98 (Ext-157)
Fax: 051-9244042, Website: www.ogra.org.pk

PID(I)5146/20

297

آئل اینڈ گیس
ریگولیٹری اتھارٹی
حکومت پاکستان

Oil & Gas
Regulatory Authority
Government of Pakistan

اطلاع عام

سوئی ناردرن گیس پائپ لائنز لمیٹڈ (SNGPL) کی جانب سے ایک درخواست دائر کی گئی ہے
جس میں سال 2021-22 کے لیے مجوزہ قیمتوں / اپنے تخمینہ شدہ ریونیو ریکوائرمنٹ کے تعین کی استدعا کی گئی ہے

PARTICULARS	The Estimates for F.Y. 2021-22 as per the Petition		
	Transmission	Transmission & Distribution	Transmission, Distribution & Sales
	Rs. In Million		
Sales Volume (MMBTU)	-	-	379,408
Cost of Gas	-	-	191,172
Operating Cost	6,559	16,754	61,427
Depreciation	5,205	24,502	24,873
Return on Assets	2,982	25,161	25,212
Subsidy for LPG Air-Mix Projects	-	167	167
UFG Adjustment	-	-	(750)
Other Operating Income	(280)	(3,660)	(19,002)
Total Revenue Requirement	14,465	61,914	283,099
Sales Revenue at Current Prescribed Price	-	-	211,900
Total Shortfall in Revenue Requirement	14,465	61,914	71,199
Previous year Revenue Shortfall	-	-	254,198
Increase in Revenue Requirement Rs./MMBTU w.e.f. July 01, 2021	-	-	857.40

کامران اکرم

جنرل منیجر (آر اے)

سوئی ناردرن گیس پائپ لائنز لمیٹڈ 21 کشمیر روڈ، لاہور

فون: 042-99201356 فیکس: 042-99204424

PID(I)5196/20

Daily - 22-3-2021