



Sui Southern Gas Company Limited

Ref : RA/21/21
Dated : 12 May 2020

The Registrar
Oil & Gas Regulatory Authority
ZTE Plaza near PIA Booking Office
Blue Area
Islamabad.



Subject: AMENDED - PETITION FOR ESTIMATED REVENUE REQUIREMENT (ERR) FY 2020-21

Dear Sir,

Please refer to our letter # RA/21/21 dated: 31 January 2020 through which the Company filed its Estimated Revenue Requirement (ERR) Petition FY 2020-21 with the Authority.

Subsequently directions from Ministry of Energy (Petroleum Division) MoE were received requiring to review certain options to "Reduce the Revenue requirement for FY 2020-21" and consequent reduction in gas sales prices with a view to provide "Relief to the gas consumers".

In this regard due diligence exercise was taken on the level of Company's Management and BoD, however, it was noted that the proposed options will have negative financial implications for the sustainable operations of the Company. Resultantly following the directives of MoE, an Amended Petition for ERR FY 2020-21 has been compiled considering the rationalization of Cost of Gas, Transmission and Distribution Costs and Capital Expenditures (the major changes are mentioned in basis & assumptions of petition for the said petition) and is enclosed herewith for Authority's determination. A short summary of change in net shortfall in the revenue requirement is given in the following table.

Net Shortfall in Revenue Requirement	Initial Petition dated 31 January 2020 (A)	Revised Petition (B)	Proposed Reduction C=(B-A)
Indigenous Gas Business			
Rs. million	49,809	30,710	(19,099)
Rs. / MMBTU	138.43	85.35	(53.08)
RLNG Gas Business			
Rs. million	7,328	6,675	(653)
Rs. / MMBTU	14.98	13.64	(1.34)

Received at SED (Gas) Office
On: 12-5-20 Time: 2:05 PM

The estimated revenue requirement for FY 2020-21 has been worked out at a surplus of Rs. 42,192 million or Rs. 117.26 per MMBTU, however an amount of Rs. 72,902 million has been added to the revenue requirement being unadjusted shortfall for prior years i.e. upto FY 2017-18 (based on un-audited results). The net shortfall for indigenous gas business comes out to Rs. 30,710 million or Rs. 85.35 per MMBTU in indigenous gas business and Rs. 6,675 million or Rs. 13.64 per MMBTU for RLNG business.

We would therefore request the Authority to approve an increase of Rs. 30,710 million or Rs. 85.35 per MMBTU in indigenous gas business and Rs. 6,675 million or Rs. 13.64 per MMBTU for RLNG business which may be allowed in SSGC prescribed price with effect from 1st July 2020.

The above should be considered as an integral part of the Petition filed with the Authority vide our letter RA/21/21 dated: 31 January 2020.

Yours faithfully


Syed Fasihuddin Fawad
General Manager (RA)
For Manager Director

CC: Mr. Shehzad Iqbal, Executive Director (Gas) OGRA
Mr. Atif Sajjad, Executive Director (Finance) OGRA

*Seen by SED (Gas) and advised further necessary
action, please.*

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SUI SOUTHERN GAS COMPANY LIMITED
 PETITION
 FOR ESTIMATED REVENUE REQUIREMENT
 FY 2020-21

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SCHEDULE - I
OIL AND GAS REGULATORY AUTHORITY
Application Form

Company Profile	
1	Name of the Petitioner:
2	Full address of the Petitioner:
3	The grounds giving rise to petitioner's interest forming the basis of the petition:
4	Number & details of License:
5	State, in a concise manner, the grounds and facts forming the basis of the petition and the relief or determination sought from the Authority.
6	Summary of evidence giving brief particulars of the facts and evidence in support of the petition:
7	List of all other petitions filed by the petitioner which are pending before the Authority at the time of the filing of this petition and which directly and significantly affect this petition, including an explanation of any material effect the grant or denial of these petitions will have on those other petitions.
8	To be accompanied by details of the following market data: a) number and consumption details of consumers likely to be affected by the petition and. b) if the petitioner is a licensee an estimate of the volume of natural gas to be transmitted, distributed or sold. c) the petitioner's total annual peak day natural gas requirement. d) the petitioner's forecast of yearly capital expenditure for five years including the year under evaluation.

Revenue per MMBTU
(Yearly Average)

Operating Revenue	Operating Expenses	Net Revenue
780.02	514.31	265.71

OPERATING REVENUES
OPERATING EXPENSES

Operating Revenue	Operating Expenses	Net Revenue
667.41	620.27	(46.54)
(38.38)	(29.53)	8.86
78.87	142.64	26.77
707.99	494.08	(13.98)

(Surplus/Shortfall) in Revenue Requirement in Gas Operation (72.04) (120.26) (48.22)

Subsidy for LPG Air Mix Projects under & above Gas Operation 3.28 3.40 (0.28)

(Surplus) in Revenue Requirement (68.75) (147.26) (48.58)

Shortfall determined under FY 2012-13 68.75 - (68.75)

Shortfall for cost overrun during FY 2012-13 - 202.61 202.61

Shortfall in Revenue Requirement of Natural Gas Customers - 85.35 85.35

Shortfall in Revenue Requirement of HSENG Customers - 13.44 13.44

Statement showing head-wise Revenue Requirement is attached as per Annexure A.

Category	LNG	MMBTU	NG	MMBTU
Domestic	-	-	5,392,850	101,765
Commercial	4,757	903	25,858	70,122
Industrial	326	25,338	4,349	247,925
	5,084	26,241	3,351,857	355,812

Estimated Distributed and Gas Sold 414,171 MMBTU

MMCFD 1,419

As per Annexure - B

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE REQUIREMENT OF
NATURAL GAS CUSTOMERS

S.No.	DESCRIPTION	Determination RERR FY 2019-20 dt:11-12-2019	Petition ERR FY 2020-21	Variance Inc/(Dec.) Petition 2020-21 Over Determination 2019-20		S.No.
					%	
1	Sales volume (MMCF)	355,363	373,249	17,885	5.0	1
2	Energy Sale in MMBTU	362,668	359,812	(2,856)	(0.8)	2
3						3
	<i>(Rupees in million)</i>					
4	OPERATING REVENUES					4
5	Gas Sales Revenue net of GDS	275,354	286,476	11,122	4.0	5
6	Income from Sale of L.P.G. NGL & Condensate	1,264	1,507	243	19.2	6
7	Other revenues	6,266	5,021	(1,245)	(19.9)	7
8	Total operating revenues	282,884	293,004	10,120	3.6	8
9						9
10	OPERATING EXPENSES					10
11	Cost of gas sold	242,083	223,431	(18,652)	(7.7)	11
12	Adjustment for UFG above benchmark	(13,923)	(10,626)	3,297	(23.7)	12
13	Transmission and distribution cost	18,689	22,568	3,879	20.8	13
14	Depreciation	5,344	7,303	1,959	36.7	14
15	Contribution to WPPF / Other charges	1,347	1,172	(75)	(4.9)	15
16	Return to SSGCL (ROA)	6,693	9,257	2,564	38.3	16
17	Total operating expenses	260,432	253,401	(7,029)	(2.7)	17
18						18
19	{Surplus}/Shortfall in Gas Operations	(22,452)	(39,601)	(17,149)	76.4	19
20	Subsidy for LPG Air Mix Projects over & above gas operation	1,191	1,080	(111)	(9.3)	20
21	{Surplus} / Shortfall	(21,261)	(38,521)	(17,259)	81.2	21
22	Shortfall determined related to FY 2018-19	+ 24,933	-	(24,933)	(100.0)	22
23	Shortfall Gas development surcharge receivable upto FY 2017-18	-	++ 72,902	72,902	-	23
24	{Surplus} / Shortfall net of prior year	3,672	34,382	30,710	836.4	24
25	Staggering of Financial Impact on account of SHC Order	(3,672)	(3,672)	-	-	25
26	Total Shortfall in Revenue Requirement of Natural Gas Tariff	-	30,710	30,710	-	26

Note:- ++ Shortfall determined by OGRA in DRERR FY 2018-19 dated 27 Feb 2019.
Any further adjustment/claim is subject to ERR petition.

++ Gas development surcharge receivable from Govt upto FY 2017-18 as per note 31.1.3 of the audited financial statements for FY 2017-18 submitted vide letter RA/26/18 dated 8 May 2019.

Amended
12-May-2020

Annexure A.ii

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE REQUIREMENT OF
NATURAL GAS CUSTOMERS

S.No.	DESCRIPTION	Determination ERR FY 2019-20 dt. 11-12-2019	Petition ERR FY 2020-21	Variance (w/ (Dec.) Petition 2020-21 Over Determination 2019-20	%	S.No.
1						1
2	Energy Sale in MMBTU	362,668	359,812	(2,856)	(0.8)	2
3						3
4	<u>OPERATING REVENUES</u>					4
5	Gas Sales Revenue net of GDS	759.25	796.18	36.93	4.9	5
6	Income from Sale of LPG, NGL & Condensate	3.49	4.19	0.70	20.1	6
7	Other revenues	17.28	13.96	(3.32)	(19.2)	7
8	Total operating revenues	780.02	814.33	34.31	4.4	8
9						9
10	<u>OPERATING EXPENSES</u>					10
11	Cost of gas sold	667.51	620.97	(46.54)	(7.0)	11
12	Adjustment for UFG above benchmark	(38.39)	(29.53)	8.86	(23.1)	12
13	Transmission and distribution cost	51.53	62.72	11.19	21.7	13
14	Depreciation	14.73	20.30	5.57	37.8	14
15	Contribution to WPPP / Other charges	4.28	4.09	(0.19)	(4.5)	15
16	Return to SSGCL (ROA)	18.45	25.73	7.28	39.5	16
17	Total operating expenses	718.11	704.28	(13.83)	(1.9)	17
18						18
19	(Surplus)/Shortfall in Gas Operations	(61.91)	(110.06)	(48.15)	77.8	19
20	Subsidy for LPG Air Mix Projects over & above gas operation	3.28	3.00	(0.28)	(8.5)	20
21	(Surplus) / Shortfall	(58.63)	(107.06)	(48.43)	82.6	21
22	Shortfall determined related to FY 2018-19	✦ 68.75	-	(68.75)	(100.0)	22
23	Shortfall Gas development surcharge receivable upto FY 2017-18	-	✦✦ 207.61	207.61	0.0	23
24	(Surplus) / Shortfall net of prior year	10.12	95.55	85.43	844.2	24
25	Slagging of Financial Impact on account of SHC Order	(10.12)	(10.20)	(0.08)	0.8	25
26	Total Shortfall in Revenue Requirement of Natural Gas Tariff	-	85.35	85.35	-	26

Note: ✦ Shortfall determined by CNGRA in DRHRR FY 2018-19 dated 27 Feb. 2019.
Any further adjustment/claim is subject to FRR petition.

✦✦ Gas development surcharge receivable from GoP upto FY 2017-18

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT SHOWING REVENUE
REQUIREMENT OF RLNG CUSTOMERS

S.No.	DESCRIPTION	Petition ERR FY 2020-21	S.No.
1	Sales volume in MMCF	26,363	1
2	Energy Sale in MMMBTU	27,246	2
3	Total RLNG Energy in MMMBTU	489,336	3
4	<i>(Rupees in million)</i>		4
5	<u>OPERATING REVENUES</u>		5
6	Gas Sales Revenue net of GDS	47,932	6
7	Recovery of LSA charges	17,538	7
8	RLNG Transportation Income	11,336	8
9	Total operating revenues	76,806	9
10	<u>OPERATING EXPENSES</u>		10
11	Cost of gas sold	43,980	11
12	LSA Charges	17,538	12
13	UPG adjustments on RLNG volume handled basis (ring fenced)	10,626	13
14	Transmission and distribution cost	214	14
15	Gas consumed internally	2,815	15
16	Depreciation	1,646	16
17	Contribution to WPPF / Other charges	765	17
18	Return to SSGCL (ROA)	5,896	18
19	Total operating expenses	82,481	19
20	Total Shortfall in Revenue Requirement of RLNG Tariff - Rs Million	6,675	20
21	Total Shortfall in Revenue Requirement of RLNG Tariff - Rs per MMMBTU	13.64	21

Amended
12-Mar-2020

Annexure - C

SUI SOUTHERN GAS COMPANY LIMITED
ESTIMATED PRESCRIBED PRICES

Rate Rs per MMBTU

CATEGORY OF CONSUMERS	PRESCRIBED PRICES effective from 01-07-2020	Price Adjustment	ESTIMATED PRESCRIBED PRICES effective from 01-07-2020
DOMESTIC CONSUMERS	as per determination dated 11 Dec-2019		
a) Standalone meters:			
b) Religious places: Mosques, churches, temple, madrasas and hostels attached thereto:			
Upto 50 CM per month - All off-takes at flat rate of	379.62	-	379.62
Upto 100 CM per month - All off-takes at flat rate of	379.62	-	379.62
Over 100 CM per month - All off-takes at flat rate of	569.43	-	569.43
Over 200 CM per month - All off-takes at flat rate of	759.24	-	759.24
Over 300 CM per month - All off-takes at flat rate of	1,091.87	-	1,091.87
Over 400 CM per month - All off-takes at flat rate of	1,440.05	-	1,440.05
Minimum charges (Rs. per month)	172.58	-	172.58
c) HOSTELS & RESIDENTIAL COLONIES- BULK METERS			
All off-takes at flat rate of	780.00	-	780.00
Minimum charges (Rs. per month)	3,900.00	-	3,900.00
SPECIAL COMMERCIAL CONSUMERS (Koti Taadnary)			
Upto 100 CM per month - All off-takes at flat rate of	379.62	-	379.62
Over 100 CM per month - All off-takes at flat rate of	569.43	-	569.43
Over 200 CM per month - All off-takes at flat rate of	759.24	-	759.24
Minimum charges (Rs. per month)	148.50	-	148.50
COMMERCIAL CONSUMERS	1,237.74	127.93	1,365.67
Minimum charges (Rs. per month)	6,415.00		6,415.00
ICE FACTORIES	1,237.74	127.93	1,365.67
Minimum charges (Rs. per month)	6,415.00		6,415.00
INDUSTRIAL CONSUMERS	985.14	127.93	1,113.07
Minimum charges (Rs. per month)	36,449.70		36,449.70
ZERO-RATED SECTORS AND THEIR CAPTIVE POWERS	757.80	127.93	885.73
Minimum charges (Rs. per month)	28,060.20		28,060.20
C.N.G STATIONS	1,237.74	127.93	1,365.67
Minimum charges (Rs. per month)	45,803.10		45,803.10
CAPTIVE POWERS	985.14	127.93	1,113.07
Minimum charges (Rs. per month)	36,449.70		36,449.70
CEMENT FACTORIES	1,231.43	127.93	1,359.36
Minimum charges (Rs. per month)	32,877.00		32,877.00
PAKISTAN STEEL	985.14	127.93	1,113.07
Minimum charges (Rs. per month)	36,449.70		36,449.70
FAUJI FERTILIZER BIN QASIM LIMITED			
Feed stock for fertilizer	759.24	-	759.24
Power generation	985.14	127.93	1,113.07
EXISTING POWER STATIONS	794.43	127.93	922.36
Minimum charges (Rs. per month)	29,416.80		29,416.80
INDEPENDENT POWER PRODUCERS	794.43	127.93	922.36
Minimum charges (Rs. per month)	29,416.80		29,416.80

Note:

- Upward adjustment of Rs. 85.15 per MMBTU for FY 2020-21 has been re-worked at Rs 127.93 per MMBTU with the consideration that effect of price adjustment not to pass on to domestic, special commercial (rob. landors) customers and feedstock of fertilizer industry.
- Minimum charges as per consumer price notifications dated 9 August 2019 and 13 September 2019 issued by the Authority

ANNEXURE - D

BASIS & ASSUMPTIONS OF PETITION FOR AMENDED - ESTIMATED REVENUE REQUIREMENT (ERR) FOR FY 2020-21

The following are the major changes in initial Petition FY 2020-21 filed with OGRA on 31 January 2020 and the attached Amended - Petition for ERR FY 2020-21 depicted through the following comparative tables.

The changes in parameters of cost gas are as follows:

(i) Oil Prices

Description		Initial Petition	Revised Petition	Proposed Reduction
Crude Oil US \$ / Barrel	Average	64.00	42.60	(21.4)
HSFO US \$ / M Ton	Average	360.00	270.10	(89.9)

(ii) Exchange Parity

1 US\$ = Pak Rs.			
Description	Initial Petition	Revised Petition	Proposed Increase
Average	162.50	170.00	7.50

The estimated SSGC weighted average cost of gas has decreased to Rs.541/ MMBTU in the Revised Petition as against the Initial Petition figure of Rs.581/ MMBTU.

Details of changes in Capitalization based on rationalization for capital expenditure showing broad categories of assets are tabulated as under

(Rupees Million)			
	Initial Petition	Revised Petition	Proposed Reduction
Transmission - RLNG	1,639	1,639	-
Transmission - Normal	13,432	8,727	(4,705)
Total Transmission	15,071	10,366	(4,705)
Major Distribution Projects - Normal	1,270	1,143	(127)
Distribution - Normal Expansion	4,283	3,643	(640)
Distribution - UFG Reduction Program / smart metering / GCV management system / V3 index	9,182	7,316	(1,866)
New Towns & Villages	1,127	1,127	-
Total Distribution	15,882	13,230	(2,652)
Plant & machinery	702	457	(245)
Furniture/computer & allied equipment	491	439	(52)
Vehicles	772	395	(377)
Misc. assets	1,204	1,151	(53)
Other Assets	3,169	2,442	(727)
LPG Air Mix	17	17	-
Total	34,119	26,065	(8,054)

Revenue expenditures have been proposed to be rationalized as detailed below:

Rs. Million				
	Description	Initial Petition	Revised Petition	Proposed Reduction
	Salaries, wages, and benefits at benchmark	18,567	17,312	(1,255)
	Gas consumed internally	607	565	(42)
	Stores, spares and supplies consumed	1,789	1,361	(428)
	Electricity	405	352	(53)
	Travelling	142	120	(22)
	Repairs & maintenance	2,900	2,728	(172)
	Professional Charges	152	117	(35)
	Meter reading by contractors	122	101	(21)
	Legal charges	108	83	(25)
	Security expenses	789	746	(43)
	Advertisement	180	120	(60)
	Others	223	158	(65)
	Remaining T&D expenses - unchanged	1,098	1,098	-
	Sub-total - Gross T&D cost	27,042	24,861	(2,181)
	Less: Recoveries / Allocations	(2,294)	(2,294)	-
	Net T&D Cost	24,748	22,568	(2,181)
	Revenue expenditure relating to LNG	3,029	3,029	-
	Net Operating Cost	27,777	26,597	(2,181)

Amended
12-May-2020

Attachment-I

SUI SOUTHERN GAS COMPANY LIMITED
COMPONENTS OF SALE PRICE FOR RLNG

For FY 2020-21		
Budget/ Petition		
Volume Received - MMBTU	462,090,000	
Volume Delivered - MMBTU	462,090,000	
ERR		
	Rupees Million	Rs per MMBTU
		Reference
LSA Capacity Charges	12,846	27.80
LSA Utilization Charges	3,754	8.12
SSGC's Margin for LSA Management (treated as non-operating)	939	2.03
LSA CHARGES	17,538	37.95
Revenue Expenditure (direct departmental cost)	214	0.46
Gas Consumed Internally	2,815	6.09
Depreciation	1,646	3.56
Return on Assets	5,896	12.76
Sub-Total	10,571	22.88
WPPF	765	1.66
RLNG Transportation income	11,336	24.53
UFG adjustments on RLNG volume handled basis (ring fenced)	10,626	23.00
Cost of Supply	21,962	47.53
TOTAL	39,501	60.83
Cost of Supply - Rs per MMBTU	47.53	
FOR RETAINAGE & OTHERS		MMCF
RLNG Volumes regasified	438,000	
Retainage Volumes	3,197	
Retainage Percentage	0.73%	
Transmission Loss	0.50%	

Included in Other income at Table B-9.6

Included in I&D cost at Table B-5.1 S.No.29

Included in T&D cost at Table B-5.1 S.No.29

Included in Depreciation at Table B-6

Included in Return at Table A-1

SUI SOUTHERN GAS COMPANY LIMITED
PETITION
FOR ESTIMATED REVENUE REQUIREMENT
FY 2020-21

INDEX - SECTION - A

Working for Tariff Adjustment & Financial Statements

DESCRIPTION	Table #
Working for Tariff Adjustment required to meet 19.64% ROA	A-1
Profit & Loss Account	A-2

SUI SOUTHERN GAS COMPANY LIMITED
WORKING FOR CARRIF ADJUSTMENT REQUIRED

		Rs. Millions		
S.No	DESCRIPTION	Prition ERR FY 2018-19	ERR 2018-19 Related to Natural Gas Customers	ERR 2018-19 Related to L&M Customers
1	Gas Sales volume in MMBTU	369,511	173,240	26,443
2	Energy Sale in MMBTU	387,058	194,822	27,245
3	Energy Delivered in MMBTU			
4	A. Net operating income			482,316
5	Other Sales - net of general sales tax	324,177,746	276,345,597	41,911,849
6	Less: Gas Development surcharge - at existing	(20,111,287)	(10,230,287)	-
7	Net Sales	304,066,459	266,115,310	41,911,849
8	RNG Transportation Income	21,315,596	-	1,335,996
9	Income from Sale of LPG, NGIL & Condensate	5,111,223	1,013,223	-
10	Minor repairs	854,837	854,837	-
11	Amortization of deferred asset	529,615	529,615	-
12	State payment Surcharge	1,248,075	1,248,075	-
13	Meter manufacturing plant profit	17,493	17,493	-
14	Other income	3,846,435	2,766,201	1,080,234
15	Sub total	20,619,674	8,462,445	12,157,433
16	Total operating income "A"	355,287,707	294,845,529	62,347,078
17	B. Less operating expenses			
18	Cost of gas	267,411,424	223,451,341	43,960,103
19	Transmission and distribution cost	25,596,526	71,567,374	1,027,050
20	Depreciation	8,949,287	7,302,809	1,646,478
21	Financial charges	11,473,519	9,373,131	2,100,388
22	Other charges excluding W.P.P.F	1,571,872	1,371,872	-
23	Total operating expenses "B"	314,962,628	262,626,327	48,734,019
24	C. Profit (Loss) before WPPF (A-B)	40,325,079	32,219,202	13,613,059
25	D. Less: Worker Profit Participation Fund	2,594,702	2,163,623	431,085
26	E. Add: Non-admissible expenditures	17,716,366	29,535,634	11,820,733
27	F. (i) Add: Financial charges of banks / others	11,473,519	9,373,131	2,100,388
28	Non-operating / disallowed expenses			
29	Adjustment for LFG above benchmark			
30	LFG adjustments on RNG volume handled basis (ring)		10,626,360	(10,626,360)
31	Staggering of Financial Impact on account of S&C Order	3,571,767	1,571,767	-
32	Other expenses	200,000	100,000	-
33	F. (i) sub-total	15,209,286	21,271,258	(7,012,972)
34	F. (ii) Less: Non operating other income			
35	Interest income & others from SPUGPL	261,672	161,072	-
36	Interest on short term loan to subsidiary	135,732	-	135,732
37	Amortization of Government grant	172,361	123,361	-
38	Income for receivable against asset contribution	85,000	85,000	-
39	Margin for LSA Management	17,617	27,617	-
40	Meter manufacturing plant profit (loss)	998,502	-	998,502
41	Income from Sale of LPG, NGIL & Condensate	78,746	28,746	-
42	E. (ii) sub-total	1,306,611	1,306,611	-
43	Net non-admissible expenditures F. (ii) - E. (ii)	3,015,617	1,991,107	1,024,510
44	F. Operating profit / (Loss) (C - D + F)	12,157,433	20,929,812	(4,420,960)
45	G. Return required on Net Assets	49,919,953	50,364,484	(445,531)
46	Net assets at beginning			
47	Net assets at ending	77,406,635	46,611,033	30,795,602
48	Average Net Fixed Assets (i a)	94,398,734	61,447,532	28,956,222
49	Less: Meter Manufacturing Plant and LFG All NGIL Project Assets / WPPPL	12,305,382	140,611,565	61,547,824
50	Net assets at beginning	86,002,894	55,039,782	10,973,912
51	Net assets at ending	3,725,874	2,766,438	959,436
52	Average Net Fixed Assets (i b)	1,621,593	2,860,699	941,494
53	Average Net Fixed Assets related to Gas Activity (i)	7,127,471	5,418,527	1,709,948
54	Average Net Fixed Assets related to Gas Activity (ii)	7,663,787	2,738,268	955,442
55	Deferred Credit at beginning			
56	Deferred Credit at ending	22,058,091	52,310,514	30,252,423
57	Average Deferred Credit (i)	5,717,706	5,117,706	-
58	Average Deferred Credit (ii)	5,258,360	5,258,360	-
59	Average Deferred Credit (i)	10,375,966	10,375,966	-
60	Average Deferred Credit (ii)	5,187,983	5,187,983	-
61	a) Average Net fixed assets after Deferred Credit (3 i - i b)	27,151,051	47,132,511	10,018,470
62	b) Return required on Net Assets	19,645%	19,645%	19,645%
63	c) Amount of return required (3 i * 3 b)	15,142,457	9,256,829	1,895,628
64	Additional Revenue Required for Gas Operation			
65	a. Shortfall (Surplus) over return required (2 i - 3 c)	(34,767,505)	(11,108,615)	4,144,150
66	b. Gross-up for W.P.P.F (3% of 3 c)	(10,597,374)	(33,272,268)	6,614,805
67	c. Increase in Prescribed Price - Cost per MMBTU	(28,553)	(28,553)	-
68	Summary for LFG All NGIL Projects over & above Gas Operation	1,075,811	4,079,211	-
69	Shortfall determined related to FY 2018-19			
70	Shortfall Gas development surcharge attributable upto FY 2018-19	72,002,12	72,002,124	-
71	Total Shortfall / (Surplus) in Revenue Requirement	37,288,764	30,709,817	4,671,935
72	Shortfall in Rs per MMBTU for Natural Gas Customers (w.e.f. 1 July 2020)	96.71	85.34	-
73	Shortfall in Rs per MMBTU for L&M Customers (w.e.f. 1 July 2020)			17.64

SUI SOUTHERN GAS COMPANY LIMITED

PROJECTED PROFIT AND LOSS ACCOUNT

Rs Million

S.No.	DESCRIPTION	Determination HERR FY 2019-20 01-11-12-2019	Petition ERR FY 2020-21	ERR 2020-21 Related to Natural Gas Customers	ERR 2020-21 Related to LNG Customers	S.No.
1	Sales volume in MMCF	355,363	399,611	373,249	26,363	1
2	Energy Sale in MMBTU	362,658	387,058	359,812	27,246	2
3						3
4	Gas sales net of sales tax	271,989.514	324,177.746	276,245.897	47,931.849	4
5	Gas development surcharge - at existing	(3,364.702)	(10,230.287)	(10,230.287)	-	5
6	Less : Price increase / (decrease)	(0.000)	37,384.761	30,709.867	6,674.895	6
7	Gas development surcharge after price adjustment	(3,364.702)	(47,615.049)	(40,940.155)	(6,674.895)	7
8	Gas development surcharge - deferral	24,933.000	72,902.324	72,902.324	-	8
9	Cross Subsidy for Air Max LPG Operation over & above Gas Operation	1,190.657	1,079.811	1,079.811	-	9
10	Gas development surcharge after adjustment	22,758.955	26,367.087	33,041.981	(6,674.895)	10
11	Net sales	249,230.560	297,810.659	243,203.916	54,606.744	11
12	Cost of gas	242,083.044	267,411.424	223,431.041	43,980.383	12
13	Gross Margin	7,147.516	30,399.235	19,772.875	10,626.361	13
14	Transmission and distribution costs	18,688.555	25,596.626	22,567.575	3,029.050	14
15	Depreciation	5,343.583	8,949.287	7,302.803	1,646.485	15
16		24,032.138	34,545.913	29,870.378	4,675.535	16
17	Meter rentals	830.130	854.837	854.837	-	17
18	Recognition of income against deferred credit	473.216	529.618	529.618	-	18
19	Operating profit	(15,591.276)	(2,762.224)	(8,713.048)	5,950.825	19
20	Late payment surcharge	3,292.345	1,248.075	1,248.075	-	20
21	Meter manufacturing plant profit	22.695	57.493	57.493	-	21
22	Air Mix LPG projects profit	251.226	264.719	264.719	-	22
23	RLNG Transportation Income	-	11,335.996	-	11,335.996	23
23	Income from Sale of LPG, NO ₂ & Condensate	2,528.132	3,013.222	3,013.222	-	23
24	Other income	2,509.623	3,840.435	2,766.201	1,074.234	24
25		(6,987.255)	16,997.715	(1,163.339)	18,161.055	25
26	Other charges excluding (W.P.P.F.)	1,979.372	1,571.832	1,571.832	-	26
27	Workers Profit Participation Fund (W.P.P.F.)	-	764.833	-	764.833	27
28		(8,966.627)	14,661.049	(2,935.172)	17,596.222	28
29	Financial charges	4,382.176	11,437.519	8,373.131	3,064.389	29
30	Profit before taxation	(13,348.803)	3,223.530	(11,308.303)	14,531.833	30

SUI SOUTHERN GAS COMPANY LIMITED
PETITION
FOR ESTIMATED REVENUE REQUIREMENT
FY 2020-21

INDEX - SECTION - B

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Note: * Not being forwarded as unchanged.

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES

S.No.	CATEGORY	Determination RERR FY 2019-20 dt:-11-12-2019	Petition ERR FY 2020-21	Variance Inc./ (Dec.) Over Determination	S.No.
	NG				
				%	
1	Volume in MMCF				1
2	Gross Purchases	408,332	425,848	17,515	2
3	Less: Gas Consumed Internally - metered	709	1,076	368	3
4		407,624	424,772	17,148	4
5					5
6	Energy in MMBTU				6
7	Gross Purchases	403,619	414,131	10,512	7
8	Less: Gas Consumed Internally - metered	703	1,045	341	8
9		402,916	413,086	10,170	9
10					10
11	Amount in Rupees Million				11
12	Gross Purchases	242,506.796	223,996.028	(18,510.768)	12
13	Less: Gas Consumed Internally - metered	423.948	564.987	141.039	13
14	Net Cost of Gas Purchases (NG)	242,082.847	223,431.041	(18,651.806)	14
15					15
16	Average Rate Rs per MMBTU	600.83	540.88	(59.95)	16
17	Weighted Average Cost of Gas (Rs per MMBTU)	602.84	540.88	(61.96)	17
18					18
19	RLNG				19
20	Volume in MMCF	28,798	30,357	1,559	20
21	Less: GIC	1,462	1,856	394	21
22		27,336	28,501	1,165	22
23	Energy in MMBTU	29,256	31,374	2,118	23
24	Less: GIC	1,555	1,887	333	24
25		27,701	29,487	1,786	25
26	Cost of Gas Purchases	44,550.593	46,795.434	2,244.840	26
27	Less: GIC	2,332.007	2,815.050	483.043	27
28	Net Cost of Gas Purchases (NG)	42,218.586	43,980.383	1,761.797	28
29	Average Rate Rs per MMBTU	1,524.07	1,491.52	(32.54)	29

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Amended
12-May-2020

Table # B-1.5

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS CONSUMED INTERNALLY
AND THIRD PARTY DAMAGES

S.No.	CATEGORY	Determination RERR FY 2019-20 dt:-11-12-2019	Petition ERR FY 2020-21	Variance Inc & Dec / Over Determination		S.No.
1	<u>Energy in MMBTU</u>				%	1
2	Compressor Fuel	551.865	913.714	361.849	65.6	2
3	LHF Badin	0.095	0.500	0.405	426.3	3
4	Domestic / other use	170.254	147.084	(23.170)	(13.6)	4
5	Transmission - total	722.215	1,061.298	339.083	47.0	5
6	Distribution - total	4.248	369.600	365.352		6
7	Total	726.462	1,430.898	704.436	97.0	7
8	Gas Consumed Internally - metered	703.246	1,044.566	341.320	48.5	8
9	Gas Consumed Internally - un-metered	24.402	24.567	0.165	0.7	9
10		727.648	1,069.133	341.485	46.9	10
11	Third Party Damages - un-metered	362.756	361.765	(0.991)	(0.3)	11
12	Gross Gas Consumed Internally	1,090.404	1,430.898	340.494	31.2	12
13	Less: Non-Admissible (un-metered)	387.158	386.332	(0.826)	(0.2)	13
14	Net Gas Consumed Internally (metered)	703.246	1,044.566	341.320	48.5	14
15						15
16	<u>Average Rate - Rs per MMBTU</u>	602.84	540.88	(61.963)	(10.3)	16
17						17
18	<u>Cost of Gas Consumed Internally - Rs Million</u>					18
19	Compressor Fuel	332.689	494.212	161.523	48.6	19
20	LHF Badin	0.057	0.270	0.213		20
21	Domestic / other use	102.637	79.555	(23.082)	(22.5)	21
22	Transmission - total	435.383	574.037	138.654	31.8	22
23	Distribution - total	2.561	199.910	197.349		23
24	Total	437.944	773.947	336.003	76.7	24
25	Gas Consumed Internally - metered	423.948	564.987	141.039	33.3	25
26	Gas Consumed Internally - un-metered	14.710	13.288	(1.423)	(9.7)	26
27		438.659	578.275	139.616	31.8	27
28	Third Party Damages - un-metered	218.686	195.672	(23.013)	(10.5)	28
29	Gross Gas Consumed Internally	657.344	773.947	116.603	17.7	29
30	Less: Non-Admissible (un-metered)	233.396	208.960	(24.436)	(10.5)	30
31	Net Gas Consumed Internally (metered)	423.948	564.987	141.039	33.3	31
32						32
33	<u>RLNG - Gas Consumed Internally</u>					33
34	MMCFD	3.99	5.09	1.091	27.3	34
35	MMCF	1,462	1,856	394.217	27.0	35
36	MMMBTU	1,555	1,887	332.697	21.4	36
37	Average Rate - Rs per MMBTU	1,500.00	1,491.52	(8.478)	(0.6)	37
38	Cost of Gas Consumed Internally - Rs Million	2,332.007	2,815.050	483.043	20.7	38

Amended
12-May-2020

Table # B-4.1

SUI SOUTHERN GAS COMPANY LIMITED
UN-ACCOUNTED FOR GAS - FOR TARIFF WORKING

MMCF					
S.No.	Description	Determination RERR FY 2019-20 dt -11-12-2019	ERR Petition FY 2020-21	Petition FY 2020-21 With Volume Handled	S.No.
1	Gross Purchases	408,332	425,848	425,848	1
2	Purchases - RLNG held stock		30,357	30,357	2
3	Gas handled on behalf of SNGPL / LNG Allocation as per GOP directives			407,643	3
4	Gross Purchases	408,332	456,205	863,848	4
5	Gas Consumed Internally - metered	709	2,933	2,933	5
6	Available for Sale	407,623	453,273	860,915	6
7					7
8	Gas Sales	355,363	373,249	373,249	8
9	Sales - RLNG held stock		26,363	26,363	9
10	Additional Gas Delivered to SNGPL under SWAP arrangement to meet RLNG energy requirement			407,643	10
11	Add: Gas Shrinkage	23	2,783	2,783	11
12		355,386	402,394	810,037	12
13					13
14	Gas Unaccounted For	52,237	50,878	50,878	14
15	Gas Unaccounted For (%)	12.79%	11.15%	5.89%	15
16					16
17	Disallowed volumes - MMCF	26,512	22,137	-	17
18	Allowable Gas Unaccounted For	25,725	28,741	54,422	18
19	Effective UFG Benchmark (i)	6.30%	6.30%	6.30%	19
20	WACOG - Rs per MCF	525.15	480.02	480.02	20
21	Disallowed value over & above UFG targets - Rs Million	13,923	10,626	-	21
22	UFG adjustments on RLNG volume handled basis			10,626	22

Note:-

- (i) Adjusted on the basis of UFG study while claiming benchmark at 6.30%.
- (ii) Disallowance for indigenous gas should not be more than Rs 750 million as per rule 20(1) of Natural Gas Tariff Rule 2002.

Table # B-5.1

SUI SOUTHERN GAS COMPANY LIMITED
TRANSMISSION AND DISTRIBUTION COST

Rupees Million

S No.	DESCRIPTION	Determination RERR FY 2019-20 dt. 11-12-2019	Petition RERR FY 2020-21	Variance Inc. / (Dec.) Over DPRR		S.No.
					%	
1	Salaries, wages, and benefits at benchmark	15,520.000	17,312.000	1,792.000	11.5	1
2	Gas consumed internally	423.948	564.987	141.039	33.3	2
3	<u>Other T&D Cost</u>					3
4	Stores, spares, stationary and gas bill printing	798.000	1,361.000	563.000	70.6	4
5	Material used on consumers installations	39.000	39.000	-	-	5
6	Electricity	230.000	352.000	122.000	53.0	6
7	Rent, rate, taxes & royalty	311.000	290.500	(20.500)	(6.6)	7
8	Traveling	131.000	120.000	(11.000)	(8.4)	8
9	Insurance excluding royalty	134.000	154.117	17.137	12.8	9
10	Postage & bill delivery through contractor	103.000	131.924	28.924	28.1	10
11	Repairs, maintenance, software development & contract labour	1,631.000	2,728.488	1,095.488	67.1	11
12	Legal charges	100.000	83.000	(17.000)	67.8	12
13	Professional charges	46.000	117.000	71.000		13
14	License Fee to OGRA	130.107	211.533	81.426	62.6	14
15	Meter reading by contractors	90.000	101.000	11.000	12.2	15
16	Collecting agent commission	3.000	3.000	-	-	16
17	Security expenses	722.000	746.000	24.000	3.3	17
18	Gas bills collection charges	197.000	238.994	41.994	21.3	18
19	Gas bills stubs processing charges	36.000	32.468	(3.532)	(9.8)	19
20	Advertisement	112.000	120.000	8.000	7.1	20
21	Others & communication	148.500	157.403	8.903	6.0	21
23	Sub-total other T&D cost	4,963.607	6,984.447	2,020.840	40.7	23
24	GROSS T&D COST	20,907.555	24,861.434	3,953.879	18.9	24
25	Less: Recoveries / Allocations	2,028.216	2,079.170	50.954	2.5	25
26	Net Transmission & Distribution Cost	18,879.340	22,782.265	3,902.925	20.7	26
27	<u>Add: Project Cost</u>			-		27
28	Revenue expenditure relating to LNG	2,527.900	3,029.050	501.151	19.8	28
29	Sub-total project cost	2,527.900	3,029.050	501.151	19.8	29
30	Net Transmission & Distribution Cost including LNG Expenses	21,407.239	25,811.315	4,404.076	20.6	30
31	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC4					31
32	Less					32
33	A Recovery of service cost (gas transportation)	190.784	214.689	23.905	12.5	33
34	Total	21,216.455	25,596.626	4,380.171	20.6	34

Note # Treatment pursuant to IFRIC-4.

SUI SOUTHERN GAS COMPANY LIMITED
SCHEDULE OF DEPRECIATION

Rupee Million

S.No.	DESCRIPTION	† Determination RERR FY 2019-20 dt-11-12-2019	Periton RERR FY 2020-21	Variance (Inc./Dec.) Percent Over Determination	S.No.
				%	
1	Building		50.648		1
2	Roads, pavements and related infrastructures		31.263		2
3	Gas transmission pipelines		839.259		3
4	Compressors		93.298		4
5	Plant and Machinery		172.956		5
6	Gas distribution systems		5,528.804		6
7	Office Furniture, equipment & computer		224.450		7
8	Computer Software (Intangible)		60.407		8
9	LPG Air Mix Projects		105.645		9
10	Telecommunication system		68.338		10
11	Appliances, house tools and equipments		47.199		11
12	Vehicles		201.794		12
13	Construction equipment		103.539		13
14	SCADA		59.786		14
15		6,385.429	7,587.384	1,271.258 19.9	15
16	Less: Meter Manufacturing Plant		14.469		16
17	LPG Air Mix Projects		105.645		17
18	Depreciation charge to capital projects		103.539		18
19			223.653		19
20			7,360.732		20
21	POLICY CHANGE PURSUANT TO APPLICATION OF IFRIC 4				21
22	Less: Recovery of service cost (gas transportation)		60.929		22
23	Total	5,343.583	7,302.803	1,959.220 36.7	23

Note:- † Treatment pursuant to IFRIC 4

† Breakup not provided in Determination.

Table # B-8

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF RLNG TRANSPORTATION INCOME
TRANSPORTATION TARIFF (PROVISIONAL) UNDER GTA
BETWEEN SSGC AND SNGPL

S.No.	DESCRIPTION		Petition ERR FY 2020-21	S.No.
			(MMCFD)	0
1	Total Capacity of the transportation pipeline	A	1,200.00	1
2	Shipper's Contracted Capacity	B	1,200.00	2
3	Capacity actually operated by the transporter	C	1,200.00	3
4	Capacity actually utilized by the Shipper	D	1,200.00	4
5				5
6	TRANSPORTATION COST		(Million Rupees)	6
7	Fixed Costs:			7
8	Operating and maintenance cost		28.756	8
9	Depreciation on book value of the segment		1,646.485	9
10	ROA on book value of the segment		5,895.627	10
11		E	7,570.868	11
12	Variable Costs:			12
13	Compression fuel		2,815.050	13
14	WPPP		764.833	14
15	Other variable expenses, if any		185.244	15
16		F	3,765.128	16
17	TRANSPORTATION TARIFF			17
18	Capacity charges based on Shipper's contracted capacity against total capacity	$G=E*B/A$	7,570.868	18
19				19
20	Commodity charges based on volume actually transported against actually operated	$H=F*D/C$	3,765.128	20
21				21
22	Total Tariff for the year ✦	I	11,335.996	22
23				23
24	Monthly Tariff	J	944.666	24
25				25
26	Total volume Transported per month - MMCF	$K=D*30$	36,000	26
27				27
28	Transportation Tariff Rs. / MCF	$L=J/K*1000$	26.24	28
29				29
30	Transportation Tariff Rs. / MMRTU (Rate per MMBTUL = Rs./MCF*1000/GCV)	$M=L*1000/1073$	24.53	30

Note: ✦ The amount will be adjusted to the extent of allowance on account of RLNG volumes handling in the prices of RLNG.

SUI SOUTHERN GAS COMPANY LIMITED
OTHER CHARGES

Rupees Million

S.No	DESCRIPTION	Determination REER FY 2019-20 dt: 11-12-2019	Petition ERR FY 2020-21	ERR 2020-21 Related to Natural Gas Customers	ERR 2020-21 Related to LNG Customers	Variance Inc. / (Dec.) Petition Over Determination		S.No
		a		b		c = b - a	%	
1	Profit before tax & other charges	(6,987.255)	16,997.715	(1,363.339)	18,361.055	5,623.916	(30.5)	1
2	Less: Air Mix LPG projects profit	251.226	264.719	264.719	-	11.493	5.4	2
3	Profit before tax & other charges	(7,238.481)	16,732.996	(1,628.058)	18,361.055	5,619.427	(77.5)	3
4	Less:							4
5	Financial charges	4,382.176	11,417.519	8,373.131	3,064.389	3,990.945	91.1	5
6	Sports club expenses	112.000	110.000	110.000		(2.000)	(1.8)	6
7	Corporate social responsibility	119.000	90.000	90.000		(29.000)	(24.4)	7
8	Provision against impaired debts and other receivables	1,723.000	1,346.832	1,346.832		(376.168)	(21.8)	8
9	Other / auditors' fees	25.372	25.000	25.000		(0.372)	(1.5)	9
10		6,361.548	13,009.332	9,944.963	3,064.389	3,583.415	56.3	10
11	Sub-total operating profit	(11,600.029)	3,723.645	(11,573.021)	15,296.666	2,027.508	(74.3)	11
12	WPPF	-	764.833	-	764.833	-	-	12
13	Add: Other / auditors' fees	1,579.372	1,571.832	1,571.832	-	(407.540)	(20.6)	13
14	Total Other Charges	1,979.372	2,336.665	1,571.832	764.833	(407.540)	(20.6)	14
15	Less: Non-admissible							15
16	Sports club expenses	(49.933)	(55.000)	(55.000)		(5.067)	10.1	16
17	Corporate social responsibility	(59.500)	(45.000)	(45.000)		14.500	(24.4)	17
18	Provision against impaired debts and other receivables	(324.000)				324.000		18
19	Sub-total non-admissible	(433.433)	(100.000)	(100.000)	-	333.433	(76.9)	19
20	Net Other Charges	1,545.939	2,236.665	1,471.832	764.833	(76.107)	(4.9)	20

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Amended

12-May-2020

Table # B-12.1

SUI SOUTHERN GAS COMPANY LIMITED
ADDITION TO FIXED AND INTANGIBLE ASSETS

Rupees Million

S.No.	DESCRIPTION	Determination REKR FY 2019-20 dt: 31-12-2019	Petition ERK FY 2020-21	Variance Inc./(Dec.) Petition Over Determination		S.No.
					%	
1	Land	0.900	53.000	52.100	5,788.9	1
2	Buildings	140.000	46.893	(93.107)	(66.5)	2
3	Gas Transmission Pipeline	1,345.000	6,266.000	4,921.000	365.9	3
4	Compressors	777.000	2,460.500	1,683.500	216.7	4
5	Plant and machinery	336.000	457.360	121.360	36.1	5
6	Gas distribution system and related facilities & equipments	5,994.000	13,229.524	7,235.524	120.7	6
7	Furniture, equipment including computers & allied equipments	237.000	438.667	201.667	85.1	7
8	Computer Software (Intangible)	9.000	224.160	215.160	2,390.7	8
9	LPG Air Mix Projects	1,893.000	16.540	(1,876.460)	(99.1)	9
10	Telecommunication system	100.000	119.150	19.150	19.2	10
11	Appls., loose tools & equipt.	306.000	274.390	(31.610)	(10.3)	11
12	Vehicles	177.000	395.100	218.100	123.2	12
13	Construction equipment & vehicles	27.000	433.600	406.600	1,505.9	13
14	TOTAL	11,341.900	24,414.884	13,072.984	115.3	14
15	RLNG		1,639.000	1,639.000	-	15
16	GRAND TOTAL	11,341.900	26,053.884	14,711.984	129.7	16

Sui Southern Gas Company Limited
Schedule of Fixed and Intangible Assets at Cost, WDV, & Free ROA

S.N.	DESCRIPTION	DEPRECIATION			Related to LNG Customers			Related to Natural Gas Customers			Related to Utility Gas Customers			Related to LNG Customers			Rs. Million
		Opening Balance	Additions	Closing Balance	Opening Balance	Additions	Closing Balance	Opening Balance	Additions	Closing Balance	Opening Balance	Additions	Closing Balance	Opening Balance	Additions	Closing Balance	
1	OVERALL																
2	PROPERTY	25,748,809	11,741,700	19,490,509	35,449,106	-	38,437,129	114,140,300	28,414,884	154,557,545	75,493,106	-	245,638	16,126,309	-	-	1
3	Land	20,555,286	7,520,499	45,352,676	2,885,152	1,119,978	2,803,572	47,455,678	7,587,786	65,112,060	5,685,872	-	1,814,384	7,120,058	-	-	2
4	Buildings	47,841,321	-	45,611,019	12,611,629	-	10,601,603	49,075,613	-	83,447,432	10,491,532	-	-	16,076,222	-	-	3
5	LEAS. ASSETS																4
6	Leasehold Improvements	1,664,750	2,344,000	5,608,735	-	-	-	3,284,296	15,940	1,913,258	-	-	-	-	-	-	5
7	Other	940,746	181,250	671,810	-	-	-	671,810	135,645	277,002	-	-	-	-	-	-	6
8	Intangible Assets	514,582	-	2,607,145	-	-	-	2,633,762	-	2,228,406	-	-	-	-	-	-	7
9	Other	962,918	8,577	711,829	-	-	-	711,809	-	711,809	-	-	-	-	-	-	8
10	Cost	432,116	48,216	480,332	-	-	-	480,332	-	480,332	-	-	-	-	-	-	9
11	Accum. Dep.	250,165	-	472,273	-	-	-	250,165	-	250,165	-	-	-	-	-	-	10
12	Assets related to EHP (Ordering)																11
13	Cost	54,755	-	37,799	-	-	-	37,799	-	37,799	-	-	-	-	-	-	12
14	Accum. Dep.	40,286	3,104	13,285	-	-	-	13,285	-	13,285	-	-	-	-	-	-	13
15	Other	14,111	-	7,814	-	-	-	7,814	-	7,814	-	-	-	-	-	-	14
16	Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
17	Accum. Dep.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
18	Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
19	Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
20	Accum. Dep.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
21	Assets related to EHP (Ordering)																20
22	Cost	1,784,171	4,628,463	1,113,846	-	-	-	4,345,493	-	4,345,493	-	-	-	-	-	-	21
23	Accum. Dep.	952,266	1,187,877	118,538	-	-	-	1,187,877	-	1,187,877	-	-	-	-	-	-	22
24	Other	735,238	2,146,551	583,986	-	-	-	583,986	-	583,986	-	-	-	-	-	-	23
25	Assets related to EHP (Ordering)																24
26	Cost	22,011,772	13,173,196	11,611,601	-	-	-	13,173,196	-	13,173,196	-	-	-	-	-	-	25
27	Accum. Dep.	78,489,286	66,382,834	3,785,171	-	-	-	3,785,171	-	3,785,171	-	-	-	-	-	-	26
28	Other	42,447,652	61,725,532	31,614,752	-	-	-	31,614,752	-	31,614,752	-	-	-	-	-	-	27
29	OVERALL																28
30	Net assets at beginning	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	29
31	Net assets at ending	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	30
32	Assets at beginning	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	31
33	Assets at ending	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	32
34	Assets at beginning	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	33
35	Assets at ending	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	34
36	Assets at beginning	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	35
37	Assets at ending	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	36
38	Assets at beginning	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	37
39	Assets at ending	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	38
40	Assets at beginning	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	39
41	Assets at ending	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	40
42	Assets at beginning	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	41
43	Assets at ending	45,352,676	-	19,490,509	-	-	-	19,490,509	-	19,490,509	-	-	-	-	-	-	42
44	Average net flows shown is related to 2007-2008																43

Table 4-B-12

SUI SOUTHERN GAS COMPANY LIMITED
PETITION**FOR ESTIMATED REVENUE REQUIREMENT****FY 2020-21****SECTION - C****Tariff Working, Financial Statements & Other Schedules**
(As per OGRA Prescribed Formats)

DESCRIPTION	Table #
Tariff calculation sheet	C-1
Profit & loss account	C-2
Late Payment Surcharge	* C-4
Category-wise sales, prescribed price and GDS - existing	* C-5
Statement of gas sales category-wise monthly and biannually	* C-6
Basis and Assumption for weighted average cost of gas	C-7
Weighted average cost of gas of both companies	C-8
Statement of gas purchases field-wise monthly and biannually - SSGCL	C-8.1
Comparative Statement of UFG in Transmission & Distribution Systems	* C-9

Note: * Not being forwarded as unchanged.

SUI SOUTHERN GAS COMPANY LIMITED
TARIFF CALCULATION SHEET
FOR THE FINANCIAL YEAR 2020-21

Particulars		Position ERR FY 2020-21	ERR 2020-21 Related to Natural Gas Customers	ERR 2020-21 Related to LNG Customers
1	Gas Sales			
1A	MMCF	399,611	373,249	26,363
1B	BBTU	387,058	359,812	27,246
1C	Average Calorific Value per MMCF	969	964	1,034
	Rs Million			
2	Net Operating Revenues			
	Sales at current Prescribed Price	334,408.033	286,476.184	47,931.849
	RLNG Transportation Income	11,335.996	-	11,335.996
	Income from Sale of LPG, NGL & Condensate	1,506.611	1,506.611	-
	Meter rentals	854.837	854.837	-
	Amortization of deferred credit	529.618	529.618	-
	Late payment Surcharge	1,248.075	1,248.075	-
	Meter manufacturing plant profit/ (loss)	28.746	28.746	-
	Other income	2,360.151	2,360.151	-
2A	Total Income	352,272.067	293,004.222	59,267.845
	Less: Operating Expenses			
	Cost of gas	267,411.424	221,431.011	43,980.383
	Adjustment in cost of gas for UFG above allowable limit	-	-	-
	UFG adjustments on RLNG volume handled basis (ring fee)	-	(10,626.360)	10,626.360
	Staggering of Financial Impact on account of SHC Order	(3,671.767)	(3,671.767)	-
	Transmission and distribution cost	25,561.234	22,543.297	2,888.912
	Gas Internally Consumed	35.391	24.279	141.039
	Depreciation	8,949.287	7,302.803	1,646.485
	Other charges including WPPF	2,236.605	1,471.832	764.834
2B	Total Expenses	300,522.236	240,475.123	60,047.112
2C	Return available (2A - 2B)	51,749.831	52,529.097	(779.267)
3	Required Return on Net Fixed Assets			
	Net Operating Fixed Assets at Beginning	68,763.101	38,740.889	30,022.212
	Net Operating Fixed Assets at End	85,538.901	55,524.171	30,014.727
3A		134,302.002	94,265.063	60,036.940
3B	Average Net Operating Fixed Assets (3A / 2)	77,151.001	47,132.531	30,018.470
3C	Required Return on Net Assets - In Percentage	19.64%	19.64%	19.64%
3D	Required Return (3B x 3C)	15,152.457	9,256.829	5,895.627
4	Shortfall / (Surplus) in Gas Operation (3D - 2C)	(36,597.314)	(43,272.268)	6,674.895
5	Subsidy for LPG Air Mix Projects over & above Gas Operation	1,079.811	1,079.811	-
7	Shortfall / (Surplus) in Revenue Requirement	(15,517.563)	(42,192.457)	6,674.895
8.i	Shortfall determined related to FY 2018-19 +	-	-	-
8.ii	Shortfall Gas development surcharge receivable upto FY 2017-18 ++	72,902.324	72,902.324	-
9	Total Shortfall in Revenue Requirement	37,384.761	30,709.867	6,674.895
	Rupees per MMBTU (w.e.f. 1 July 2020)	96.59	85.35	13.64

Note: + Shortfall determined by DGRA in DRRR FY 2018-19 dated 27 Feb 2019.

Any further adjustment claim is subject to FDR petition

++ Gas development surcharge receivable from GNP upto FY 2017-18 as per para 31.13 of the initial financial statements for FY 2017-18 submitted vide letter RA/26/19 dated 8 May 2019.

SUI SOUTHERN GAS COMPANY LIMITED

PROFIT AND LOSS ACCOUNT

Description	Determination RERR FY 2019-20 dt:-11-12-2019	Puition ERR FY 2020-21	ERR 2020-21 Related to Natural Gas Customers	ERR 2020-21 Related to LNG Customers
Sales				
MMCF	755,363	399,611	173,249	26,363
BBTU	362,668	387,058	359,812	27,246
Rupees Million				
Return required on net assets				
Net assets at the beginning	37,929	68,763	18,741	30,022
Net assets at the end	38,870	85,539	55,524	30,015
Average net operating fixed assets	38,399	77,151	47,133	30,018
Required return	6,528	13,116	8,013	5,103
Gas sales net of sales tax	271,990	324,178	276,246	47,932
Less: Gas Development Surcharge after adjustments	22,759	63,752	63,752	-
At current tariff	249,231	260,426	212,494	47,932
Tariff Adjustment Required	(0)	37,385	30,710	6,675
Net gas sales	249,231	297,811	243,204	54,607
Other Revenue				
RLNG Transportation Income	-	11,336	-	11,336
Income from Sale of LPG, NGI. & Condensate	2,528	3,013	3,013	-
Meter rentals	820	855	855	-
Recognition of income against deferred credit	473	530	530	-
Late payment surcharge	3,292	1,248	1,248	-
Meter manufacturing plant profit	23	57	57	-
Air Mix LPG projects profit	251	265	265	-
Other income	2,510	3,840	2,766	1,074
Other Revenue	9,897	21,144	8,734	12,410
Revenues	259,128	318,955	251,938	67,017
Expenses				
Cost of gas	242,083	267,411	223,431	43,980
Transmission and distribution costs	18,689	25,597	22,568	3,029
Depreciation	5,344	8,949	7,303	1,646
Other charges excluding (W.P.P.F.)	1,979	1,572	1,572	-
Workers Profit Participation Fund (W.P.P.F.)	-	765	-	765
	268,095	304,294	254,873	49,421
Operating Profits	(8,967)	14,661	(2,935)	17,596
Less : Borrowing cost	4,382	11,438	8,373	3,064
Profit before tax	(13,349)	3,224	(11,308)	14,532

Amended
May-20
Table # C-7

SUT SOUTHERN GAS COMPANY LIMITED

BASIS / ASSUMPTIONS

ERR FOR FY 2020-21

Exchange Parity Rs per US\$

Crude oil US\$ per Barrel

Average FOB Prices

Freight

Average C&F Prices

MMBTU/BBT.

HSFO US\$ per M.Ton.

Average FOB Prices

Freight

Average C&F Prices

MMBTU per M.Ton.

Rs per MMBTU

SSGCL Average Cost of Gas

SNGPL Average Cost of Gas

Weighted Average Cost of Gas

Rs per MCF

Petition			Determination		
Jul.-Dec. 20	Jan.-Jun. 21	Averages	Jul.-Dec. 19	Jan.-Jun. 20	Averages
170.0000	170.0000	170.00	158.39	159.00	158.69
49.6883	34.4813	42.0848	63.8672	63.7717	64.81
0.5187	0.5187	0.5187	0.5187	0.5187	0.51
50.2070	35.0000	42.6035	66.3859	64.2900	65.33
5.6098	5.6098		5.6098	5.6098	
255.8241	275.6299	265.7271	392.9990	337.2093	365.104
4.3701	4.3701	4.3701	4.3701	4.3701	4.370
260.1944	280.0000	270.0972	397.3691	341.5794	369.474
40.7920	40.7920		40.7920	40.7920	
		540.88			602.8
		456.72			486.1
		501.53			541.8
		480.02			525.1

SHF SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS GAS PURCHASES
FOR FISCAL YEAR 2020-21

S.No	GAS FIELD	MMCFD	MMCF	MMMBTU	Rs per MMBTU	Rupees M-Price
1	Sui	110.90	10,150	38,135	462.47	14,39,004
2	Kinohkot	1.49	54	446	235.46	102,727
3	Mazari	3.00	1,093	1,117	297.90	330,321
4	Gamber Block - Wabco/Shakulud (X)	69.55	25,356	21,222	419.62	10,161,163
5	Adams X-1 / Maja	12.90	4,799	4,903	447.09	2,196,374
6	Hindaf X-1 & Radeel X-1	0.72	264	264	445.92	117,724
7	Dadfa Block	50.00	14,750	20,777	436.13	9,061,590
8	Kinpro Block - Naimal Basal	274.59	100,223	83,354	690.14	60,976,819
9	Mirpurkhas Block - Kassar	20.00	7,100	8,992	683.72	5,332,945
10	Mitha	8.19	2,989	3,494	681.72	2,046,967
11	Kutti	1.42	1,244	1,242	683.72	854,474
12	ALJYABAD	10.00	3,650	3,650	683.72	2,495,994
13	Kadanwari	51.37	12,180	12,146	1,065.10	12,990,207
14	Soh	119.37	13,203	41,023	513.53	21,068,368
15	Mirco	50.85	11,260	11,265	478.14	5,385,362
16	Sawan	10.00	3,650	3,671	477.29	1,752,831
17	Maher / Mulrah Block	23.90	8,355	9,047	430.72	3,797,236
18	Soha	12.06	4,580	4,719	419.72	1,980,639
19	Lahir	10.50	3,834	3,856	441.08	1,727,685
20	Zamzama	8.17	2,982	2,478	465.17	1,156,153
21	Kimber (Rehman) EFWT	19.54	7,130	5,978	735.21	4,401,294
22	Rizq - EFWT	15.46	2,645	5,258	716.29	3,870,850
23	Zargoon	15.00	4,745	4,509	533.01	2,416,099
24	Mari	0.52	337	346	250.46	86,708
25	Sajawal / Sejal	2.40	877	925	488.08	451,329
26	Sejal	12.10	4,415	4,415	488.08	2,154,992
27	Aqeeq-I	1.92	706	713	488.08	360,228
28	SHGPL Treats: Ghader, Kakra, Sherah, Umayy, etc	4.10	1,197	1,200	730.00	1,013,869
29	Sara / Hundi	2.00	750	655	681.29	454,569
30	Singhar	31.00	12,043	17,206	479.72	5,124,506
31	Baki	3.90	1,093	1,215	445.61	547,429
32	Pasaka Deep & Kassar Deep	144.20	52,598	53,941	432.15	23,310,478
33	Tay/Dars	35.90	20,462	21,055	419.72	8,854,219
34	Pakhu / Noorai Jagir / Daru	9.00	3,285	3,794	388.46	1,473,712
35	Nor Bagla Fields	3.00	1,093	1,181	388.46	458,835
36	Dhokra / Jakhri / Gopang	1.59	579	652	388.46	251,211
37	Jakhri	1.96	351	395	388.46	153,351
38	Chini-BI	6.81	2,425	2,907	388.46	1,129,150
39	Bibirni	4.69	1,678	1,716	388.46	666,738
40	Thal	5.22	1,904	1,994	388.46	739,482
41	Suleman	2.05	747	747	388.46	288,794
42	Mangro	0.62	228	228	388.46	88,146
43	Aycho / Aminah / Ayala (North)	14.50	5,402	5,402	435.13	2,356,001
44	Zarrah	0.47	171	171	434.61	74,330
45	Gas Purchases					
46	Excise duty					
47	SSGCL Average input Cost of Gas	1,166.71	425,848	414,131	530.21	219,867,718
48					10.00	4,124,310
49	SHGPL Average input Cost of Gas	1,166.71	425,848	414,131	540.83	223,596,028
50	Weighted Average Cost of Gas (WACOG)	1,060.03	385,211	363,277	456.72	166,143,481
51	Rs per MMBTU	7,226.74	812,759	777,908		390,161,412
52	Rs per MCF				201.53	
					492.02	

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FRY 2020-21

S No	GAS FIELD	Jul-20				Aug 20			
		MMCFD	MMCF	MMMBTU	Rupess Million	MMCFD	MMCF	MMMBTU	Rupess Million
1	Sui	115.00	3,470	3,256	1,445,735	110.00	3,410	3,255	1,445,735
2	Kardhok	1.44	45	78	9,328	1.49	46	33	9,708
3	Masrani	3.00	95	94	38,072	3.00	94	94	38,072
4	Gumbal Block - Wafiq/Shahdad (X1)	65.00	2,215	1,982	810,110	55.00	1,817	1,922	810,110
5	Adam X-1 / Mela	12.30	420	406	187,375	12.91	400	416	187,375
6	Hadeef X-1 & Badeel X-1	-	-	-	-	-	-	-	-
7	Badin Block	50.00	1,510	1,765	772,143	50.00	1,590	1,765	772,143
8	Khapro Block - Naimaz Block	280.00	8,680	7,652	3,809,716	280.00	8,680	7,652	3,809,716
9	Miepukkhas Block - Kausar	20.00	620	687	315,843	20.00	620	687	315,843
10	M.che	8.19	254	254	191,210	8.19	254	254	191,210
12	Kotin	3.42	105	105	79,725	3.42	105	106	79,725
12	ALIYABAD	10.00	310	340	223,118	12.00	310	310	211,188
13	Kadawari	40.00	1,240	1,242	1,279,079	40.00	1,240	1,242	1,279,079
14	Bhik	125.00	3,871	3,679	2,009,457	125.00	3,875	3,579	2,008,057
15	Mirani	35.00	1,085	1,085	551,488	35.00	1,085	1,085	551,488
16	Saman	10.00	310	312	153,495	10.00	310	312	153,495
17	Mahar / Mubarak Block	75.00	2,250	2,250	1,044,664	75.00	2,250	2,250	1,044,664
18	Sofia	12.00	372	401	169,032	12.00	372	401	169,032
19	Lahar	11.00	341	343	154,174	11.00	341	343	154,174
20	Zamzama	12.00	372	347	171,851	12.00	372	347	171,851
21	Kuthar (Kashan) EWT	10.54	326	328	329,802	10.54	326	328	329,802
22	Ring - EWT	15.45	470	427	251,614	15.45	470	447	251,614
23	Zargoon	11.00	341	381	218,701	13.00	403	343	218,701
24	Khar	0.92	29	21	5,179	0.92	29	21	5,179
25	Sogawal / Sujjal	2.49	77	87	41,126	2.49	77	81	41,116
26	Sujal	12.52	388	338	196,122	12.52	388	388	196,322
27	Ayraq-I	1.49	46	65	32,817	1.49	46	66	32,817
28	SSGCL Tawar/Ghadi, B-Pan, Sher Ali, Ubar, etc)	4.10	127	110	86,109	4.10	127	110	86,109
29	Sari / Hundi	2.00	62	56	25,847	2.00	62	56	25,847
30	Sincharo	31.00	1,021	1,017	457,344	31.00	1,021	1,037	457,344
31	Rohi	3.40	93	103	44,312	3.40	93	103	44,312
32	Pasak Deep & Kunhar Deep	144.10	4,467	4,589	1,999,762	144.10	4,467	4,381	1,999,762
33	Tay/Dara	55.90	1,713	1,792	755,622	55.90	1,713	1,792	755,622
34	Pakhar / Moura / Jaur / Uru	9.00	279	327	125,753	9.00	279	322	125,753
35	Naz Bagh fields	3.00	93	100	39,153	3.00	93	100	39,153
36	Darhampur / Pakhar / Gupang	1.59	49	50	21,607	1.59	49	50	21,607
37	Jakhu	0.96	29	34	13,936	0.96	29	34	13,936
38	Chulha-C1	6.51	211	247	96,354	6.51	211	247	96,354
39	Bitrisa	4.60	143	146	55,895	4.60	143	146	55,895
40	Mud	5.72	162	162	70,201	5.72	162	162	70,201
41	Suleman	-	-	-	-	-	-	-	-
42	Mangro	-	-	-	-	-	-	-	-
43	Ayasha / Aminah / Ayasha (Nanli)	-	-	-	-	-	-	-	-
44	Zainab	-	-	-	-	-	-	-	-
45	Gas Purchases	1,183.99	36,704	35,574	20,069,174	1,183.99	36,704	35,574	20,069,174
46	Karise duty	-	-	-	355,638	-	-	-	355,638
47	SSGCL Average input Cost of Gas	1,183.99	36,704	35,574	20,424,811	1,183.99	36,704	35,574	20,424,811
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Table A-C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FISCAL YEAR 2020-21

S.No	GAS FIELD	Sep-20				Oct-20			
		MMCFD	MMCF	MMBtu	Rupees Million	MMCFD	MMCF	MMBtu	Rupees Million
1	Sui	110.00	3,300	3,154	1,329,044	110.00	3,410	3,750	1,445,715
2	Kamhiq	1.49	45	27	9,058	1.49	46	28	9,508
3	Mazraa	3.00	90	91	27,165	3.00	93	94	28,072
4	Ganabai Block - Wafiq/Shahdad (X1)	6.00	1,800	1,360	543,484	6.00	2,077	1,951	845,490
5	Adam X-1 / Hala	12.90	387	405	181,333	12.90	470	415	187,176
6	Hafat X-1 & Dadeel X-1	-	-	-	-	-	-	-	-
7	Burfin Block	90.00	2,700	1,708	747,236	10.00	1,550	1,765	372,143
8	Khyru Block - Narmia Ruzic	280.00	8,400	7,455	3,623,366	235.00	8,125	7,315	3,705,971
9	Munpukhar Block - Karsar	20.00	600	585	500,770	20.00	620	687	316,843
10	Mirba	5.12	246	285	155,142	5.19	254	254	191,270
11	Kain	3.42	103	105	77,151	3.42	106	105	79,725
12	ALLIYABAD	70.00	2,100	590	225,548	14.00	310	310	237,118
13	Kadawari	35.00	1,050	1,031	1,087,041	15.00	1,085	1,085	1,114,194
14	Bhar	120.00	3,600	3,418	1,865,550	120.00	3,750	3,554	1,927,755
15	Miano	30.00	900	900	457,453	34.00	950	930	470,718
16	Sawon	19.00	570	302	153,382	20.00	510	512	158,465
17	Maher / Mirak Block	13.00	390	744	717,610	27.00	713	708	324,064
18	Sotha	12.00	360	385	169,579	12.00	372	401	769,032
19	Latif	1.00	300	332	149,346	11.00	341	343	154,724
20	Lambana	70.00	2,100	249	217,901	8.00	245	199	97,465
21	Kuller (Rohman) & EWT	19.54	586	493	280,004	19.54	606	508	395,800
22	Hing - EWT	15.46	464	472	340,279	15.46	479	447	351,614
23	Zargoon	13.00	390	371	217,453	17.00	403	383	218,591
24	Mari	4.92	148	20	4,973	0.92	29	21	5,119
25	Sujawal / Sujal	2.40	72	74	39,740	2.40	77	81	41,716
26	Sujal	10.12	303	276	189,989	12.52	384	388	195,322
27	Aqary-I	1.00	300	67	31,753	1.00	62	65	32,817
28	SGP1 Tuzha-Ghrib, Kullar, Sharda, (Dara, etc.)	4.10	123	107	85,732	4.10	127	116	86,709
29	Sun / Hurd	2.00	60	34	32,155	2.00	62	56	33,647
30	Sindhoo	17.00	510	1,034	425,236	15.00	1,204	1,037	427,344
31	Bobi	1.00	300	150	42,842	1.00	93	103	44,312
32	Pasari Deep & Kullar Deep	144.10	4,323	4,432	1,935,254	114.10	4,547	4,541	1,995,762
33	Sey-Dara	55.90	1,677	1,734	711,247	55.90	1,731	1,792	745,622
34	Pakha / Noorai Jagri / Dara	5.00	150	510	121,696	5.00	279	522	125,751
35	Nur Nagrah fields	3.00	90	97	57,890	3.00	94	100	39,153
36	Deerapuri / Jakhri / Gopang	1.39	42	34	20,910	1.39	49	55	21,507
37	Jakhri	6.46	194	17	12,663	6.46	29	34	13,086
38	Chagro-01	6.81	204	239	93,247	6.81	211	247	98,551
39	Bilgram	1.60	48	141	53,058	1.60	143	145	58,591
40	Thal	5.22	156	156	61,065	5.22	162	162	62,101
41	Suleman	-	-	-	-	-	-	-	-
42	Mangrio	-	-	-	-	-	-	-	-
43	Ayacha / Aminah / Ayacha (Noor)	14.80	444	444	194,280	14.80	454	459	200,756
44	Zainab	-	-	-	-	-	-	-	-
45	Gas Purchases	1,865.05	55,970	34,051	19,113,050	1,163.99	36,081	35,050	19,647,011
46	Excise duty	-	-	-	339,739	-	-	-	349,794
47	SSGCL Average index Cost of Gas	1,168.99	35,073	14,081	19,452,818	1,163.99	36,084	35,050	19,990,805
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Table C-8.1

NET SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WINE INDEPENDENT
GAS PURCHASES
FOR ENH FY 2019-21

S.No	GAS FIELD	Nov-20				Dec-20			
		MMSCFD	MMCF	MMMBTU	Rupess Million	MMSCFD	MMCF	MMMBTU	Rupess Million
1	Sui	110.00	1,100	3,151	7,399,009	110.00	3,410	3,356	1,415,755
2	Kandhkot	1.49	45	17	4,008	1.49	46	31	9,304
3	Mazari	3.00	90	91	27,166	3.00	93	94	24,073
4	Chimbar Block - Wazir/Shahid-EXT	67.00	2,010	1,417	608,559	68.00	2,168	2,011	847,560
5	Adnan X-1 / Hale	12.90	187	443	128,313	12.91	189	476	127,578
6	Harkit X-1 & Harkit X-1	-	-	-	-	-	-	-	-
7	Qadiri Block	50.00	1,500	4,768	147,216	50.00	1,559	1,765	777,113
8	Kajuro Block - Nizami Basal	275.00	8,250	7,273	5,521,908	275.00	8,520	7,515	5,705,921
9	Mirpurkhos Block - Kausar	20.00	600	665	500,150	20.00	620	687	515,843
10	Mitha	8.12	246	210	181,042	8.19	244	264	197,210
11	Koti	3.42	103	103	77,145	3.42	104	105	74,725
12	ALIYABAD	10.00	300	500	325,598	10.00	310	310	231,118
13	Kadunwan	45.00	1,350	1,641	1,083,591	45.00	1,365	1,346	1,129,194
14	Rhili	120.00	1,650	3,413	1,865,559	120.00	3,720	3,552	1,927,755
15	Muzar	30.00	900	900	451,955	30.00	930	920	472,704
16	Sauwars	10.00	300	202	153,382	10.00	310	312	158,494
17	Mahar / Mubarak Block	23.00	690	744	213,610	23.00	723	708	324,064
18	Sofia	12.00	360	338	153,579	12.00	372	401	169,012
19	Labi	17.50	525	737	149,345	17.50	541	543	156,324
20	Zainab	8.00	240	191	97,322	8.00	248	150	97,465
21	Kirther (Rahman)-EXT	19.14	585	491	386,944	19.14	596	506	394,800
22	Kara - FWI	15.46	464	452	340,273	15.46	474	447	352,614
23	Zargawa	13.00	390	371	217,433	13.00	401	383	218,591
24	Mari	0.92	28	30	4,923	0.92	29	21	5,139
25	Sujawal / Sujal	2.49	75	79	39,790	2.49	75	77	38,654
26	Sujal	17.52	526	576	189,889	17.52	545	515	184,773
27	Aqeeq-II	1.94	60	63	31,758	1.97	58	62	31,887
28	SSGPL Tawana (Ghazi, Rustam, Sher Ali, Tibara etc)	4.80	145	137	84,332	4.10	127	110	86,109
29	Sari / Hundi	2.00	60	54	32,756	2.00	62	56	32,847
30	Singhoro	33.00	990	1,004	423,236	33.00	1,025	1,037	437,344
31	Dabi	3.00	90	100	41,882	3.00	93	103	44,312
32	Pasbi Deep & Kunwar Deep	144.10	4,323	4,433	1,915,354	144.30	4,467	4,581	1,946,762
33	Tay/Dara	55.00	1,650	1,754	731,247	55.90	1,716	1,799	755,622
34	Paktho / Nizami Jagir / Daru	9.00	270	302	121,626	9.00	279	322	225,753
35	Nuri Bagfa haki	3.00	90	97	37,890	3.00	93	100	39,153
36	Dachbani / Paktho / Gupang	1.50	45	54	20,910	1.59	49	55	21,807
37	Jakhro	0.96	29	32	12,663	0.96	31	31	13,085
38	Chuxo-D1	5.84	175	239	93,242	6.81	211	247	96,351
39	Basam	4.40	132	141	55,058	4.40	142	146	56,483
40	Thal	5.22	156	156	61,265	5.22	167	162	63,161
41	Suleman	-	-	-	-	-	-	-	-
42	Marghar	-	-	-	-	-	-	-	-
43	Ayasha / Aminah / Aysha (North)	-	-	-	-	-	-	-	-
44	Zainab	14.80	444	444	194,787	14.30	439	459	200,756
45	Gas Purchases	1,163.99	34,890	31,958	19,013,747	1,163.99	36,084	35,088	19,643,534
46	Excise duty	-	-	-	228,512	-	-	-	149,775
47	SSGPL Average input Cost of Gas	1,163.99	34,920	31,958	19,161,747	1,163.99	36,084	35,088	19,993,359
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Annex-2

Annex-2

Table # C-8.1

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDEGENOUS
GAS PURCHASES
FOR FRY 2020-21

S No	GAS FIELD	Jan-21				Feb-21			
		MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
1	Sui	110.00	3,470	3,254	1,172,839	141.00	3,110	2,941	1,059,338
2	Kurthkot	1.19	40	38	8,431	1.42	42	34	7,344
3	Mazra	3.00	93	94	28,072	3.19	84	85	15,153
4	Gambel Block - Wariq Shehad (X)	90.30	2,134	2,040	859,034	69.00	1,932	1,843	709,624
5	Adam X-1 / Tala	12.90	406	416	785,674	12.41	367	376	167,306
6	Hadi X-1 & Badel X-1	-	-	-	-	-	-	-	-
7	Badin Block	50.00	1,550	1,705	767,044	90.00	1,405	1,574	692,814
8	Kipro Block - Nazim Basal	275.00	5,505	7,515	4,617,215	275.00	7,700	6,788	4,297,458
9	Mertukhas Block - Kassar	30.00	620	587	422,772	20.00	560	621	481,362
10	Mulla	8.19	254	254	150,265	8.19	239	210	141,084
11	Kori	3.42	106	106	65,129	3.42	96	96	58,826
12	ALYABAD	10.09	310	310	190,440	10.40	301	280	175,011
13	Kachwan	30.00	919	931	1,032,330	30.00	849	841	932,427
14	Bhar	115.00	3,505	3,385	1,621,279	115.00	3,220	3,057	1,464,376
15	Mimo	30.00	940	930	914,825	30.00	840	842	374,685
16	Sawan	40.00	310	312	339,030	40.00	280	282	121,652
17	Maher / Mutwak Block	23.00	715	768	470,920	23.00	644	594	283,854
18	Solia	12.50	372	401	367,540	12.00	359	362	151,143
19	Lafit	10.00	310	312	1,09,030	10.00	280	287	325,566
20	Zamzang	4.50	248	198	95,161	5.00	224	179	76,920
21	Kirther (Rahman) EWT	19.54	604	568	147,387	19.54	517	459	313,744
22	Rizq EWT	15.46	479	447	305,518	15.46	432	403	275,952
23	Zargoon	15.00	403	343	208,212	13.00	354	316	188,604
24	Mari	5.91	19	21	4,489	6.92	20	19	4,054
25	Sujawal / Sujat	3.14	73	77	35,916	3.14	64	59	32,440
26	Sujal	11.79	345	365	171,429	11.79	330	340	154,894
27	Aqeeq-1	1.87	58	61	28,650	1.87	52	55	25,892
28	SHGPL Trains: Dhoke, Bulam Sheela, Gharan, etc.	4.11	123	110	85,109	4.10	115	100	77,276
29	Sun / Hundi	2.00	62	56	16,424	2.00	55	50	32,509
30	Singhar	35.00	1,023	1,037	453,192	35.00	924	937	391,185
31	Buti	3.00	91	103	47,685	3.00	84	91	43,430
32	Polaki Deep & Kunnar Deep	144.10	4,467	4,511	1,969,455	144.10	4,075	4,138	1,799,856
33	Tayilhari	55.90	1,735	1,792	748,293	55.90	1,567	1,618	675,877
34	Polakro / Noorai Jagat / Dera	9.40	279	312	124,567	9.00	252	291	112,517
35	Nur Bagh fields	3.00	93	100	31,783	3.00	84	91	35,030
36	Dachapur / Fakhr / Gopang	4.59	49	55	21,403	4.56	44	50	19,172
37	Jaldiro	0.50	30	31	17,402	0.96	27	30	11,708
38	Chano-01	5.81	271	247	95,442	5.82	191	123	84,206
39	Birsia	4.40	143	146	56,357	4.60	139	132	50,903
40	Thal	5.22	152	162	57,503	5.22	146	146	54,456
41	Suleman	-	-	-	-	-	-	-	-
42	Mangro	-	-	-	-	-	-	-	-
43	Ayesha / Aminah / Ayesha (North)	-	-	-	-	-	-	-	-
44	Zamnah	14.80	459	459	199,434	14.90	414	474	181,134
45	Gas Phases	1,151.99	35,774	34,784	17,439,862	1,151.99	32,112	31,418	14,792,133
46	Excess duty	-	-	-	146,723	-	-	-	313,180
47	SSGCT: Average input Cost of Gas	1,151.99	35,774	34,784	17,786,585	1,151.99	32,112	31,418	15,205,314
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Table 6 C-9.3

SH SOUTHERN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIGENOUS
GAS PURCHASES
FOR FRY 2020-21

S.No	GAS FIELD	Mar-21				Apr-21			
		MMCFD	MMBtu	MMMBTU	Rupees Million	MMCFD	MMBtu	MMMBTU	Rupees Million
1	Suji	1.000	3.416	1.256	1,172.435	115.20	3.300	3.121	1,145.025
2	Kandhkot	1.40	46	38	8131	1.40	45	37	7,868
3	Muzarri	3.00	97	94	28,072	3.00	92	92	27,166
4	Gambat Block - Wafiq/Shanda-5-371	13.60	2,325	2,216	926,178	75.60	2,250	2,146	890,302
5	Adam X-1 / Eddu	13.90	460	418	485,518	12.90	187	401	179,585
6	Badar X-1 & Badar X-2	-	-	-	-	-	-	-	-
7	Bedin Block	61.00	2,510	1,763	747,044	60.00	1,500	1,718	742,500
8	Khipu Block - Naipal Dasal	270.60	8,775	7,319	4,562,723	270.00	8,190	7,141	4,415,535
9	Mipurkhat Block - Kumbhar	20.00	610	687	472,232	20.00	600	665	408,692
10	Mitha	8.14	254	234	1,55,255	8.15	246	246	151,366
11	Kotri	3.42	106	106	65,120	3.42	103	103	63,038
12	ALLIYABAD	19.00	310	310	190,440	10.00	300	300	184,297
13	Kadawari	20.00	950	931	1,102,330	20.00	900	901	999,029
14	Bhir	115.00	3,563	3,185	7,621,274	115.00	3,450	3,236	1,563,931
15	Miano	30.00	920	930	411,829	30.00	900	900	401,448
16	Sawan	10.00	310	310	139,000	10.00	300	302	134,603
17	Mahar / Mubarak Block	23.00	713	765	320,020	23.00	690	731	310,568
18	Sofa	12.30	171	461	167,192	12.00	350	358	161,902
19	Lara	10.00	340	312	139,070	10.00	300	302	134,535
20	Zumra	7.02	217	173	74,516	7.05	210	167	72,112
21	Kindar (Rehman)-EWT	19.38	656	908	347,387	19.34	586	491	336,121
22	Rize - EWT	15.46	470	447	201,578	15.46	464	432	295,662
23	Zurgoon	11.00	401	487	208,912	11.00	400	371	102,076
24	Mari	0.92	29	21	4,489	0.92	28	20	4,344
25	Sujawal / Sujaf	2.34	73	77	39,966	2.34	70	74	34,757
26	Sajjal	11.19	363	363	171,480	11.19	354	354	165,257
27	Aqeeq-I	1.87	58	64	28,666	1.87	55	59	27,741
28	SNLW, Towers (Shada, Ruzar, Sarda, Ulu, etc)	4.10	127	110	86,104	4.10	123	107	83,532
29	Sari / Hundi	2.00	62	36	16,424	2.00	60	34	11,249
30	Sughoro	31.05	1,023	1,037	453,102	31.00	960	2,054	419,131
31	Bobi	3.00	91	103	47,685	3.00	90	100	46,147
32	Pasari Deep & Kurnar Deep	146.10	4,457	4,582	1,959,895	146.10	4,323	4,437	1,896,285
33	Tari/Dars	55.90	1,753	1,722	748,293	55.90	1,677	1,734	724,153
34	Pakhro / Nizak / Jigar / Daru	9.00	279	432	174,597	9.00	270	312	120,388
35	Nar Bugha Fields	3.00	90	100	35,745	3.00	90	97	37,372
36	Dachra / Jafiro / Gupang	1.95	49	35	31,403	2.00	48	54	20,712
37	Jakha	0.56	10	34	12,982	0.56	29	32	7,544
38	Chutto-01	6.81	211	247	95,447	6.81	204	230	92,363
39	Burim	4.50	143	146	56,357	4.60	138	147	54,559
40	Tial	5.22	160	162	62,365	5.22	156	156	60,489
41	Suleman	-	-	-	-	-	-	-	-
42	Mangro	-	-	-	-	-	-	-	-
43	Ayasha / Aminah / Ayasha (North)	-	-	-	-	-	-	-	-
44	Zamaj	14.80	459	439	197,477	14.80	444	444	192,497
45	Gas Purchases	1,453.09	35,774	34,800	17,418,816	1,453.95	34,620	34,577	16,815,919
46	Excise duty	-	-	-	316,596	-	-	-	335,705
47	SSGCL Average input Cost of Gas	2,153.49	35,774	34,800	17,735,412	2,153.95	34,620	34,577	17,151,624
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Table A.C-8.1

SUDANETHRYN GAS COMPANY LIMITED
STATEMENT OF FIELD WISE INDIENOUS
GAS PURCHASES
FOR ERM FY 2020-21

S.No	GAS FIELD	May-21				Apr-21			
		MMCFD	MMCF	MMMBTU	Revenue million	MMCFD	MMCF	MMMBTU	Revenue million
1	Sai	1.00	3.115	3.256	5,172.839	0.00	0.000	0.000	1,135.005
2	Kanahkon	1.39	44	38	8,131	1.40	45	37	7,865
3	Makaram	1.00	95	94	28,072	3.00	90	91	27,166
4	Gambat Block - Wafiq/Sahada-1(X2)	15.00	2,175	2,218	926,178	75.00	2,250	2,146	696,202
5	Ailam X-1 / Hala	12.90	400	416	183,674	12.90	381	405	179,683
6	Badal X-1 & Badal X-2	-	-	-	-	8.80	264	264	717,724
7	Bajin Block	50.00	1,500	1,765	767,244	50.00	1,500	1,794	742,300
8	Khipu Block - Naimat Basal	270.00	8,100	7,374	4,362,771	270.00	8,100	7,141	4,415,579
9	Mipurkhas Block - Kausar	20.00	620	687	422,222	20.00	600	663	408,622
10	Mithu	8.19	254	254	154,203	8.19	246	246	151,266
11	Kau	4.44	106	106	65,129	3.43	105	107	63,038
12	ALYABAD	10.00	310	310	190,432	10.00	300	300	184,287
13	Kadaryan	50.00	400	531	1,072,330	50.00	900	911	990,029
14	Bha	15.00	3,560	3,325	2,621,229	115.00	3,450	3,276	1,583,931
15	Mirap	20.00	450	930	414,829	10.00	920	900	401,148
16	Sywan	10.00	570	312	139,090	10.00	300	102	134,603
17	Mahar / Muharak Block	23.00	711	788	1,07,920	23.00	640	744	220,568
18	Sufi	12.00	372	401	167,392	12.00	360	388	161,992
19	Lahf	16.00	510	512	134,070	16.00	300	302	234,515
20	Zamzama	7.00	215	175	74,316	7.00	210	167	72,112
21	Karher (Rahman).E.W.T	14.44	606	508	517,387	19.54	586	491	535,181
22	Rizq - E.W.T	15.46	479	447	101,518	15.46	464	432	295,662
23	Zargoon	15.00	411	135	208,812	13.00	330	371	212,076
24	Mari	0.91	20	27	4,489	0.92	28	20	4,344
25	Sajawal / Sujjal	2.24	72	77	35,916	2.14	70	74	34,757
26	Sujjal	11.79	364	365	171,489	11.79	354	354	165,947
27	Aqeeq-1	1.87	38	61	28,656	1.87	56	56	27,741
28	BMCHL Town (Chala, Bawani, SherAli, Udaia etc.)	4.10	127	130	85,109	4.10	123	127	83,332
29	Sau / Munda	2.00	62	56	30,421	2.00	60	54	35,240
30	Sinjikao	13.00	1,073	1,037	435,172	13.10	990	1,004	419,131
31	Bob	3.00	91	103	47,685	3.00	90	100	46,187
32	Paraki Deep & Kunnar Deep	54.10	1,467	4,581	1,839,495	54.10	4,323	4,470	1,806,265
33	Tay/Dha	55.90	1,711	1,792	746,292	55.90	1,677	1,739	724,153
34	Pakira / Nuxari Jagir Durg	9.00	270	327	124,567	9.00	270	323	120,568
35	Nur Bagla helda	3.00	93	100	38,783	3.00	90	97	37,522
36	Dachrapur / Jakhro / Gungang	1.59	46	55	24,405	1.59	48	54	29,712
37	Jakhro	0.96	30	34	12,362	0.96	29	32	12,544
38	Chullo-Gi	6.82	211	247	95,047	6.81	304	239	92,563
39	Birraak	4.60	141	146	56,357	4.60	138	141	56,519
40	Thal	4.22	152	162	62,405	5.22	156	136	60,490
41	Suleman	-	-	-	-	24.50	747	747	368,704
42	Mangro	-	-	-	-	7.60	228	228	88,146
43	Ayasha / Amriah / Aysha (North)	14.80	459	459	199,450	14.80	444	444	192,957
44	Zamab	-	-	-	-	5.70	171	171	74,330
45	Gas Hedges	1,152.49	35,778	34,802	17,418,416	1,200.94	36,530	35,063	27,425,922
46	Facility duty	-	-	-	346.836	-	-	-	184,505
47	SG&CT Average spot Cost of Gas	1,133.59	35,774	34,800	17,765,252	1,200.99	36,610	35,067	27,773,718
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SIN SOUTHERN GAS COMPANY LIMITED
 STATEMENT OF FIELD WISE INDIGENOUS
 GAS PURCHASES
 FOR QAR FY 2020-21

S No	GAS FIELD	Jul - Dec '20				Jan - Jun '21			
		MMCFD	MMCF	MMMBTU	Export Billion	MMCFD	MMCF	MMMBTU	Export Billion
1	Sui	110.00	20,240	19,375	5,591.118	110.00	19,910	19,010	6,847.866
2	Kandhwal	1.10	274	225	33.309	1.40	270	221	47.475
3	Mazra	2.00	65	60	106.020	3.00	245	531	161.903
4	Gumbaz Block - Wafiq/Sahdad-XN	50.17	12,171	11,612	4,887.495	73.04	13,221	12,610	5,266.667
5	Adam X-1 / Hala	12.80	2,704	2,477	1,112.171	12.00	2,335	2,431	1,084.097
6	Jedif X-1 & Budeel X-1	-	-	-	-	1.40	204	204	217.724
7	Badin Block	30.00	9,700	10,474	4,363.045	30.00	9,050	10,303	4,438.345
8	Khipro Block - Hameed Basal	277.50	18,060	45,012	34,175.589	271.44	49,985	43,347	26,404.230
9	Murpurkhas Block - Karsan	20.00	3,640	4,079	3,667.710	20.00	3,620	4,013	2,485.234
10	Muha	8.19	1,507	1,509	1,134.526	8.19	1,487	1,485	912.035
11	Kabri	3.42	524	610	473.225	7.42	619	619	489.271
12	ATJYABAD	20.00	1,840	1,840	1,381.566	10.00	1,810	1,810	1,111.926
13	Kadimari	30.68	5,740	5,754	6,982.720	30.00	2,499	1,437	6,327.418
14	Bak	121.68	22,390	21,259	11,502.634	115.00	20,885	19,754	5,465.884
15	Mirani	11.65	5,810	5,852	2,903.283	10.00	3,430	5,197	2,427.044
16	Sawan	10.00	1,840	1,851	940.744	10.00	4,810	1,821	412.106
17	Mahar / Mahand Block	23.00	4,732	4,761	1,423.435	23.00	4,763	4,486	1,633.761
18	Sofia	12.00	1,208	2,379	1,003.285	12.00	2,172	2,300	977.354
19	Lulit	11.00	2,024	2,035	915.990	10.00	1,810	1,820	881.495
20	Zamkani	9.00	1,654	1,129	690.812	7.13	1,396	1,047	455.339
21	Kirther (Rahman)-EWT	19.34	3,795	3,074	2,773.038	19.34	3,526	2,965	2,028.390
22	Rizq - EWT	13.46	2,843	2,611	2,060.407	11.48	2,789	2,707	1,787.325
23	Zargoon	13.00	2,592	2,273	1,296.909	13.00	2,553	2,256	1,219.150
24	Mari	0.92	1.00	124	30.300	0.92	107	122	26.207
25	Sajawal / Sujat	2.48	453	478	241.627	3.34	424	447	209.708
26	Sigal	12.40	2,282	2,292	1,145.715	11.79	2,134	2,134	1,091.277
27	Ayreeq-1	1.97	362	381	105.835	1.87	338	357	107.172
28	ANGPI Tamsi (Gyath, Rusan, Shawa, Wago, etc.)	0.10	751	054	511.203	4.10	741	643	503.240
29	Sari / Shurji	2.00	368	330	290.951	2.00	360	324	212.666
30	Sinjhora	11.00	6,071	6,755	2,499.550	13.00	5,973	6,055	2,528.756
31	Dehi	3.00	552	611	363.611	3.00	245	603	278.437
32	Pasak Deep & Kunsar Deep	114.10	26,515	27,182	11,869.557	144.12	30,085	26,749	11,440.921
33	Tapi/Ther	15.90	10,285	10,664	4,484.489	15.90	10,117	10,867	4,394.050
34	Pakhran / Nurrai Jagir / Daru	9.00	1,530	1,972	746.404	9.00	1,629	1,841	727.308
35	Nor Bagla Fields	3.70	352	395	132.390	3.00	543	585	225.445
36	Dachapur / Jakhra / Gopang	1.59	290	326	123.246	1.59	287	323	134.965
37	Jakhra	0.96	177	199	77.660	0.95	174	195	75.661
38	Chunah-Qi	6.81	1,253	1,463	571.891	6.81	1,232	1,447	557.259
39	Betrom	4.60	846	865	337.680	4.60	842	851	329.049
40	Thal	5.23	960	960	274.532	5.27	944	944	264.954
41	Sulman	-	-	-	-	1.13	747	747	288.794
42	Mangro	-	-	-	-	1.25	124	126	88.145
43	Ayasha / Aminah / Ayasha (North)	14.00	2,173	2,723	1,397.535	14.80	2,670	2,670	1,164.415
44	Zamab	-	-	-	-	0.94	171	171	102.350
45	Gas Purchases	1,171.53	215,565	209,565	113,555.249	2,161.78	210,283	204,556	102,312.459
46	Excess duty	-	-	-	2,688.003	-	-	-	2,034.218
47	SSGCI - Average Input Cost of Gas	1,171.53	215,565	209,565	119,644.352	2,161.78	210,283	204,556	104,346.676
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SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
FY 2020-21

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Note: * Not being forwarded as unchanged

Annexured Particulars
SUN SOUTHERN GAS COMPANY LIMITED
CAPITALIZATION DETAILS FY 2020-21
TRANSMISSION PROJECTS

Table # D-1.1

S. No.	DESCRIPTION OF SEGMENT	FY 2019-20 Approved		FY 2020-21 ERSE	
		KMS	Gross Capitalization (Rs. Million)	KMS	Gross Capitalization (Rs. Million)
1	12" Dia x 40 KMs Pipeline from Reenat Field to Nang MVA	40	1,369,000		50,000
2	30" Dia x 24 KMs Pipeline from Ayesta Gas Field	24	941,000		91,000
3	10" Dia x 175 Km Pipeline from SMS South University to SMS Pakland (1st segment)	50	3,150,000	66	1,017,000
4	Upgradation of SMS Thana				150,000
5	Check Metering Facility at Shalabpur for Jacobabad South Field Gas Measurement (RS2)				275,000
6	Check Metering arrangements at Daru		63,000		21,000
7	16" Dia x 9 Km Re Route of Soori Bannge				
8	12" Dia x 344 Km QPL Rehabilitation and Intelligent Piggng				390,000
9	Construction of Sub-merge Crossings				166,000
10	New Compressor Unit at Sibi				
11	In K Overhaul of D8 990 Gas Turbine Engine 47No. 620-201-003 Shikarpur Compressor				420,000
12	Repair of Fuel Control Valve ACV-10 at original equipment manufacture facility-mardan - Durgam Road Compressor				10,000
13	Air Dryer-Sibi Compressor				1,300
14	Replacement of Action & Limit Valves-Compressor (Shikarpur) (QPL HQ L304)				60,000
15	24" Dia x 34 Km from Sibi Subbase to SMS Segari (QPL & Sagarji)				-
16	24" Dia x 24 Km Pipeline from Shikarpur to Jacobabad (leftover)		8,000		87,000
17	New Compressor at Shikarpur to Jacobabad for QPL				1,955,000
	Sub-Total above		5,331,000		5,726,500
	RING PROJECTS				
	Ph-1				
18	24" dia x 21 Km interlink b/w Pakland to Khadeji (Leftover in 2019-20)		2,200		-
19	De-in and integration arrangement - from new point 2 to Pakland & 2km Quasin		580,000		511,000
	Ph-2 and Others				
20	42" dia x 182 Km (Ph-2) - from Pakland to Nars (Leftover in 2019-20 Rs 212 million in FY 2020-21 Rs 255 million)		212,000		255,000
21	Acquisition of 06 Compressor units & extension of facility at Nawabshah (Total 30,000 HP) - (leftover - building executive mess)				150,000
22	In K Overhaul of Solar T-60 Gas Turbine Engine installed at RING HQ Compressor Station				100,000
23	Refinishment of Solar Turbine T-60 Compressor Rotors/Burds - RING				60,000
24	Replacement of Dry gas Seal Controller for Solar T-60 Gas Compressor installed at K' N (1 & 2 Compressor Station - RING)				18,000
25	30" Dia x 17 KMs from L' F's But Quasin to MVA Pakland	17	2,169,000		45,000
	Sub-total RING	17	2,960,290	-	1,619,000
	Total - Transmission	141	8,294,290	66	10,365,500

SUI SOUTHERN GAS COMPANY LIMITED
CAPITALIZATION DETAILS FY 2020-21

DISTRIBUTION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	FY 2019-20 Revised		FY 2020-21 ENR	
		KMs	Gross Capitalization (Rs. Million)	KMs	Gross Capitalization (Rs. Million)
1	20" Dia x 1.5 Kms Inlet to 4" to 16" steel Main & STE Gas Turbine Main	-	-	1.2	97.840
2	Reinf. Work at Quam Old City Area 16" dia Loop Line	-	-	18.0	194.351
3	Reinf. Work at Sibi Road to Mugh Shadi Link Road up to Masana Road	-	-	6.4	235.111
4	30" Dia x 7 Kms Distribution Plant to Jinnah Mall Chilton	-	-	7.0	345.550
5	12" Dia x 5 Kms Old City Area Augmented Main	-	-	5.0	122.120
6	12" Dia x 1.5 KM- Extension from SMS-KT to Al-Asif Square	-	-	-	-
7	Normal Expansion	691.3	1,299,044	958.0	1,980,020
8	New Towns & Villages	231.1	757,956	302.2	1,126,098
9	Rehabilitation Mains & Services (UEG Reduction Program)	525.4	1,081,000	465.0	1,705,362
10	Meters (UEG Reduction Program)	-	1,397,000	-	3,665,105
11	UEG Reduction Program - Segmentation	-	-	-	104,500
12	Smart Metering SCADA VV1 Index	-	498,000	-	1,500,000
Total - GDS		1,523.9	5,530,040	1,746.1	73,129,121
GRAND TOTAL GTPL & GDS		1,644.9	10,824,290	1,857.1	23,695,829

Table # D-1.2

SUI SOUTHERN GAS COMPANY LIMITED
ADDITION IN NETWORK (Kilometers) FY 2020-21

Amended
 (Length in Kilometers)

S. No.	DESCRIPTION OF SEGMENT	FY 2019-20 (Revised)	FY 2020-21
A	<u>TRANSMISSION SYSTEM</u>		
1	12" Dia x 46 KMs Pipeline from Rehman Field to Naing MVA	46.0	
2	08" Dia x 28 KMs Pipeline, from Ayesha Gas Field	28.0	
3	30" Dia x 17 KMs from CTS Bin Qasim to MVA Pakland (RLNG)	17.0	
4	30" Dia x 125 Km Pipeline from SMS Sindh University to SMS Pakland (1st segment)	50.0	66.0
5	24" Dia x 31 Km from SMS Kathore to SMS Strjani (ACPL Surjani)		
6	16" dia x 9 km Re Route of Kntri Barrage		
	Sub Total- Transmission (A)	141.0	66.0
B	<u>DISTRIBUTION SYSTEM</u>		
	Major Distribution Projects:		
1	20" Dia x 1.5 KMs Interlink of Shershab Main & SITE Gas Turbine Main		1.5
2	Reinf. Work at Quetta Mid City Area 16" dia Loop Line		18.0
3	Reinf. Work at Sibi Road via Mian Ghundi Link Road upto Mashung Road		6.4
4	20" Dia x 7 KMs Desalination Plant to Dolmen Mall Clifton		7.0
5	12" Dia x 5 KMs Old City Area Augmentation Main		5.0
6	12" Dia. x 3.3 KM- Extension from SMS-KT to Al-Asif Square		
B	Sub-Total	-	37.9
B I	New Towns/ Villages	231.3	302.2
B II	Normal Expansion	697.3	938.0
C	Sub Total- Distribution (C = B+B I+B II)	928.6	1,278.1
	Total Trans. + Distribution (A+C)	1,069.6	1,344.1

Table # D-5

SUI SOUTHERN GAS COMPANY LIMITED
GAS DISTRIBUTION SYSTEM - ADDITION
SUMMARY OF ACTIVITIES

S.No.	Description	ERR FY 2020-21	FY 2020-21 Estimated Revenue Requirement				Rs. In Million
			Need Assessment	Cost Benefit Analysis	Completion (if applicable)	Date of Commissioning	
1	Rehabilitation Mains and Services- UFG Control Program	1,687.6					
2	Segmentation	108.5					
	Sub Total: UFG Control Program (A)	1,796.1					
3	Laying of Distribution Mains including services-Existing Areas and DDC	2,307.9					
4	Installation of New Connections (meters)	1,334.7				Ongoing	Ongoing
5	Replacement/Repair of Undersized Meters	2,666.0				Ongoing	Ongoing
6	Meters. Installation of FVC, Filter Separators, Etc	199.1				Ongoing	Ongoing
7	Construction of CMSSs, TBSs, and TRSs, / Cathodic Protection	154.9				Ongoing	Ongoing
8	New Towns	1,127.0				Ongoing	Ongoing
	Sub Total: Normal (B)	8,789.5					
	Total GDS Older Than Major Projects: (A+B)	10,585.6					
9	12" Dia x 3 KMs Old City Area Augmentation Main	122.1					
10	20" Dia x 7 KMs Desalination Plant to Dolmen Mall Clifton	345.6					
11	20" Dia x 1.5 KMs Interlink of Shershah Main & SITE Gas Turbine Main	87.9					
12	Reinf. Work at Quetta Mid City Area 16" dia Loop Line	354.6					
13	Reinf. Work at Sibi Road v-a Mian Ghundi Link Road upto Mastung Road	231.1					
	Sub Total: Major Distribution Projects	1,143.2					
14	Smart Metering/GCV/V3 Index	1,500.4					
	Total Gas Distribution System	13,228.8					

Please refer Table: D-3.2

Table # D-5.1

DISTRIBUTION DEVELOPMENT **DISTRIBUTION MAINS INCLUDING EXTENSION IN EXISTING AREAS, REINFORCEMENT** **AND REHABILITATION PROGRAM**

San Alonso Developer (Initial):	FY 2015-16 (Actual)				FY 2016-17 (Actual)				FY 2017-18 (Actual)				FY 2018-19 (Actual)				FY 2019-20 (Actual)				FY 2020-21 (Actual)			
	Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs	
		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km
28																								
18	32.5	147.5	12.4	26	181.5	12.4	2.5	23.4	11.4	2.5	23.4	11.4	2.5	23.4	11.4	2.5	23.4	11.4	2.5	23.4	11.4	2.5	23.4	11.4
12	48.1	141.0	3.5	31.7	243.1	3.4	2.0	14.5	2.5	2.0	14.5	2.5	2.0	14.5	2.5	2.0	14.5	2.5	2.0	14.5	2.5	2.0	14.5	2.5
8	51.1	100.6	3.1	77.9	243.2	3.0	45%	243.2	3.0	45%	243.2	3.0	45%	243.2	3.0	45%	243.2	3.0	45%	243.2	3.0	45%	243.2	3.0
6	123.5	54.5	2.1	123.5	54.5	2.1	12%	54.5	2.1	12%	54.5	2.1	12%	54.5	2.1	12%	54.5	2.1	12%	54.5	2.1	12%	54.5	2.1
4	137.4	15.7	0.7	20.3	151.2	0.8	34%	151.2	0.8	34%	151.2	0.8	34%	151.2	0.8	34%	151.2	0.8	34%	151.2	0.8	34%	151.2	0.8
2	13.0	10.9	0.5	23.3	10.3	0.5	1%	10.3	0.5	1%	10.3	0.5	1%	10.3	0.5	1%	10.3	0.5	1%	10.3	0.5	1%	10.3	0.5
54	117.0	106.0	4.6	312.3	46.7	0.7	4%	46.7	0.7	4%	46.7	0.7	4%	46.7	0.7	4%	46.7	0.7	4%	46.7	0.7	4%	46.7	0.7
Total	638.7	490.1	7.5	822.8	1,369.4	1.3	571.0	1,411.5	1.8	571.0	1,411.5	1.8	571.0	1,411.5	1.8	571.0	1,411.5	1.8	571.0	1,411.5	1.8	571.0	1,411.5	1.8
FY 2015-16 (Actual)																								
Fifty Seven Estimates (mm)	Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs	
		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km			
100	32.5	147.5	12.4	26	181.5	12.4	2.5	23.4	11.4	2.5	23.4	11.4	2.5	23.4	11.4	2.5	23.4	11.4	2.5	23.4	11.4	2.5	23.4	11.4
119	122.3	135.1	1.2	100.5	114.7	1.1	45%	114.7	1.1	45%	114.7	1.1	45%	114.7	1.1	45%	114.7	1.1	45%	114.7	1.1	45%	114.7	1.1
67	35.8	11.5	0.3	561.0	83.5	0.4	9%	83.5	0.4	9%	83.5	0.4	9%	83.5	0.4	9%	83.5	0.4	9%	83.5	0.4	9%	83.5	0.4
48	45.4	4.4	0.2	77.4	15.7	0.1	12%	15.7	0.1	12%	15.7	0.1	12%	15.7	0.1	12%	15.7	0.1	12%	15.7	0.1	12%	15.7	0.1
39	115.4	197.3	3.6	172.5	172.5	0.8	34%	172.5	0.8	34%	172.5	0.8	34%	172.5	0.8	34%	172.5	0.8	34%	172.5	0.8	34%	172.5	0.8
Sub Total	382.4	561.5	3.3	700.2	515.2	0.7	571.0	1,411.5	1.8	571.0	1,411.5	1.8	571.0	1,411.5	1.8	571.0	1,411.5	1.8	571.0	1,411.5	1.8	571.0	1,411.5	1.8
Net Total	467.5	449.8	3.7	149.6	1,177.6	3.0	331.3	1,554.8	3.9	331.3	1,554.8	3.9	331.3	1,554.8	3.9	331.3	1,554.8	3.9	331.3	1,554.8	3.9	331.3	1,554.8	3.9
Total	1,497.1	2,107.2	1.1	1,201.6	2,762.2	1.4	2,101.6	2,947.0	1.3	2,101.6	2,947.0	1.3	2,101.6	2,947.0	1.3	2,101.6	2,947.0	1.3	2,101.6	2,947.0	1.3	2,101.6	2,947.0	1.3
FY 2018-19 (Actual)																								
Multiple Cases	Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs		Length (Km)	Cost in Rs. Lakhs	
		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km		Material Cost	Capex per Km			
Three Topo. Cont. (DUC)																								
Head Replenishment Charge (d.R.)																								
PHS (TS) (d.R.)																								
Prior Sanction																								
Service Core Address & Representation																								
Sequencing																								
Modernization Rehabilitation of EVC Filter or (if available)																								
Total Over Cost																								
Grand Total	1,645.1	6,142.4	4.1	1,931.6	1,036.8	4.2	2,194.6	8,498.1	3.9	2,194.6	8,498.1	3.9	2,194.6	8,498.1	3.9	2,194.6	8,498.1	3.9	2,194.6	8,498.1	3.9	2,194.6	8,498.1	3.9

SUI SOUTHERN GAS COMPANY LIMITED
DISTRIBUTION DEVELOPMENT
ADDITIONAL METERS (NEW CONNECTIONS)

Table # D-5.2

Physical Target (Regionwise)									
FY 2019-20 Petition									
Connection Category	Karachi			Sindh			Balochistan		
	Units	Cost/Unit in Rupees	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Cost/Unit in Rupees
Industrial	145	1,240,738	18	1,243,109	4	1,203,250			
Commercial	700	115,270	118	115,130	260	115,308			
Domestic-Normal	60,000	3,711	52,000	5,433	12,000	5,433			
Total	60,845	-	52,136	-	12,264	-			
FY 2020-21 Petition									
Connection Category	Karachi			Sindh			Balochistan		
	Units	Cost/Unit in Rupees	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Cost/Unit in Rupees
Industrial	142	1,144,161	40	1,258,039	2	995,697			
Commercial	917	56,839	128	57,165	119	57,157			
Domestic-Normal	92,770	4,493	35,170	5,371	14,083	5,371			
Total	93,829		35,338		15,204				

Physical Target (Regionwise)									
FY 2019-20 Petition									
Region	Karachi			Sindh			Balochistan		
	Units	Cost/Unit in Rupees	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Cost/Unit in Rupees
Karachi	60,845	483.5							
Sindh	52,136	318.5							
Balochistan	12,264	100.0							
Total	125,245	901.0							
DDC		319.5							
Total		1,220.5							

Physical Target (Regionwise)									
FY 2019-20 Petition									
Region	Karachi			Sindh			Balochistan		
	Units	Cost/Unit in Rupees	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Cost/Unit in Rupees
Karachi	60,845	483.5							
Sindh	52,136	318.5							
Balochistan	12,264	100.0							
Total	125,245	901.0							
DDC		319.5							
Total		1,220.5							

Table # D-5.3

SUI SOUTHERN GAS COMPANY LIMITED
DISTRIBUTION DEVELOPMENT

REPLACEMENT OF INDUSTRIAL, COMMERCIAL AND DOMESTIC METERS

Connection Category	FY 2019-20 ERR						FY 2020-21 ERR					
	Karachi			Sindh			Balochistan			Karachi		
	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees
Industrial	312.0	1,240,737	39	1,241,646	9	1,203,222	417.0	1,790,694	86	1,917,815	13	967,078
Commercial	1,670.0	115,270	282	115,130	620	115,308	805.0	87,775	207	87,775	138	87,775
Domestic	225,000	2,488	72,000	4,465	27,000	4,465	360,000	3,111	285,100	4,164	80,000	4,164
Total	226,982		72,321		27,629		361,221		285,393		80,151	
Meter Repair & Replacement Cost Details												
Region	FY 2019-20 ERR			FY 2020-21 ERR			Region			FY 2020-21 ERR		
	Units	Rs. Million	Units	Rs. Million	Units	Rs. Million	Units	Rs. Million	Units	Rs. Million	Units	Rs. Million
Karachi	226,982	1,139.4	226,982	1,139.4			Karachi		361,222	1,937.4		
Sindh	72,321	402.4	72,321	402.4			Sindh		285,393	1,390.3		
Balochistan	27,629	202.9	27,629	202.9			Balochistan		80,151	357.8		
	Total			1,744.8			Total		726,766	3,665.5		
	Total Cost Including DDC			1,744.8			Total Cost Including DDC			3,665.5		

SUI SOUTHERN GAS COMPANY LIMITED
DISTRIBUTION DEVELOPMENT
TBS., TRS, PRS, AND CP STATIONS etc.

Table: D-5.4

Description	FY 2019-20 Petition							
	Karachi			Sindh			Balochistan	
	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Total Cost
<u>New Addition</u>								
TR Stations	15	3.0	45.0	6	3.0	18.0	10	30.0
PR Stations	25	0.3	7.5	8	0.3	2.4	60	18.0
CP Stations	-	-	-	-	-	-	-	-
Total New Addition	40	-	52.5	14	-	20.4	70	48.0
<u>Modification</u>								
TR Stations	15	2.2	33.5	14	2.2	31.2	4	8.9
TR Stations								
Total Modification	15	-	33.5	14	-	31.2	4	8.9
Grand Total	55	-	86.0	28	-	51.6	74	56.9
Total cost for FY 2019-20								194.5

FY 2020-21 Petition								Rs. In Million
Karachi			Sindh			Balochistan		
Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost
15	2.5	37.5	5	2.5	12.5	8	2.5	20.0
5	0.6	3.0	1	0.6	0.6	5	0.6	3.0
8	2.9	14.4	10	2.9	28.7	3	2.9	8.6
25	-	55	16	-	42	16	-	32
10	1.3	13.3	8	1.3	10.6	2	1.3	2.7
10	-	13.3	8	-	10.6	2	-	2.7
35	-	68.2	24	-	52.4	18	-	34.3
Total cost for FY 2020-21								154.9

Table: D-5.4

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NEW TOWNS AND VILLAGES ERR PETITION 2020-21

D-5.5
SINDH

231

Sr. No.	Name of Town / Village	No. of Villages	Total Mains (Km)	No. of Connections	Cost Rs. In Millions			Cost Rs. In Millions			Cost Rs. In Millions		
					Total Cost		Total	FY 2019-20 Petition			FY 2020-21 Petition		
					Grant	Own		Over & Above to be Adj against Credit	Own	Total	Over & Above to be Adj against Credit	Own	Total
					A	B	(A+B)						
ERR 2019-20:													
1	Muhalla Pir Syed Mahmood Shah	1	0.22	6	0.76	0.32	1.08	0.76	0.32	1.08	0.22	-	-
2	Baharo Dero	1	8.46	204	10.55	15.88	26.43	10.55	15.88	26.43	8.46	-	-
3	Ras Dero	1	5.91	327	15.89	17.66	33.55	15.89	17.66	33.55	8.91	-	-
4	Azra: Bux Sajooda, Farid Khan Jagirani & Mohamud Chulal Solar	3	4.95	115	9.56	6.21	15.77	9.56	6.21	15.77	4.95	-	-
5	Rafique Mallesar	1	6.29	94	16.50	5.08	21.58	16.50	5.08	21.58	6.29	-	-
6	Ghulam Ghar: Muxir Ghar: Anar Shah & Dal Ghar	4	6.78	242	11.16	13.07	24.23	11.16	13.07	24.23	6.78	-	-
7	Debar Ghar: Muxir Ghar: & Esso Town	3	16.34	781	11.96	42.17	54.13	11.96	42.17	54.13	16.34	-	-
8	Ali Das Shahan	3	1.76	5	3.85	0.49	4.34	3.85	0.49	4.34	1.76	-	-
9	Ujan Barah Kalhara	3	0.67	12	1.37	0.65	2.02	1.37	0.65	2.02	0.67	-	-
10	Ali Mohammad Sirovi, Sajawal Dhandoo & Rajib Dhandoo	3	5.50	64	5.89	3.46	9.34	5.89	3.46	9.34	5.50	-	-
11	Dagh Chama	1	1.85	64	0.77	3.46	4.23	0.77	3.46	4.23	1.85	-	-
12	Hussain Chana	1	2.26	44	6.10	2.59	8.69	6.10	2.59	8.69	2.26	-	-
13	Saleemabad	3	0.38	2	1.34	0.11	1.45	1.34	0.11	1.45	0.38	-	-
14	Abulad (Mun Nazir: Mohamud)	3	1.49	5	3.64	0.27	3.91	3.64	0.27	3.91	1.49	-	-
15	Allah Isayoo Bhulla	1	2.17	42	4.49	2.27	6.76	4.49	2.27	6.76	2.17	-	-
16	Abul Kalam Khan Chachar	1	0.20	1	1.13	0.05	1.18	1.13	0.05	1.18	0.20	-	-
17	Metro Chachar: Mithan Maloo, Wasil Indoo: Shah: Wasil Qureshi: Shah & Fakhri: Mohamud: Yousuf Chachar	5	25.06	460	49.63	24.94	74.57	49.63	24.94	74.57	25.06	-	-
18	Sach Dinn Kalwar	1	2.68	42	7.18	2.27	9.45	7.18	2.27	9.45	2.68	-	-
19	Ahliat Singhar	1	0.80	24	0.87	1.30	2.17	0.87	1.30	2.17	0.80	-	-
20	Suleman Chachar	1	0.50	18	1.79	0.97	2.76	1.79	0.97	2.76	0.50	-	-

NEW TOWNS AND VILLAGES ERR PETITION 2020-21

D-5.5
SINDH

Sr. No.	Name of Town / Village	No. of Villages	Total Males (Kms)	No. of Consumers	Cost Rs. In Million			Cost Rs. In Million			Cost Rs. In Million		
					Total Cost			Total Cost			Expected to be Capitalized		
					Grant	Own	Total	Over & Above to be Adj against Grant	Own	Total	Over & Above to be Adj against Grant	Own	Total
					A	B	(A+B)						
21	Yas Yoo Mohammad Seward	1	0.90	1	2.35	0.05	2.40	2.35	0.05	2.40	0.00	-	-
22	Saleh Bhagel, Moammar Arkin, Muhammad Zuh Betram & Uelle Noonan	1	15.10	632	20.36	34.13	63.49	20.36	34.13	63.49	15.10	-	-
23	Khair Mohammad Dabar	1	3.60	42	9.83	2.27	12.10	9.83	2.27	12.10	3.60	-	-
24	Manchar Shure	1	8.23	932	0.00	19.67	19.67	0.00	19.67	19.67	8.23	-	-
25	Amber Baksh Khan	1	1.30	12	2.71	0.65	3.36	2.71	0.65	3.36	1.30	-	-
26	Rahim Golei	1	0.39	1	1.57	0.05	1.62	1.57	0.05	1.62	0.39	-	-
27	Sahra Khan Mazi	1	1.10	62	0.00	3.14	3.14	0.00	3.14	3.14	1.10	-	-
28	Chaudhry Nazir Ahmed Gill	1	0.60	6	1.45	0.32	1.78	1.45	0.32	1.78	0.60	-	-
29	Arif Qasbi / Waqar Qasbi	1	0.61	6	1.48	0.32	1.80	1.48	0.32	1.80	0.61	-	-
30	Khalid Jurejo	1	1.00	7	2.56	0.35	2.91	2.56	0.35	2.91	1.00	-	-
31	Amir Khan, Paboe	1	1.00	24	1.71	1.00	2.71	1.71	1.00	2.71	1.00	-	-
32	Waqar Tabeo	1	0.61	157	12.55	2.48	15.03	12.55	2.48	15.03	0.61	-	-
33	Alli M. Baharud Parhiyar	1	3.00	48	7.30	2.59	9.89	7.30	2.59	9.89	3.00	-	-
34	Abdul Shakou Memon	1	0.57	18	0.87	0.97	1.84	0.87	0.97	1.84	0.57	-	-
35	Omam Kahu Shah & Lukhoo	2	3.55	91	7.04	5.02	12.06	7.04	5.02	12.06	3.55	-	-
36	James Lashari, Soomer Chohan & Haji Khan Jassan	2	3.15	36	8.86	1.94	10.80	8.86	1.94	10.80	3.15	-	-
37	Alli Mawza Bagran	1	3.55	58	10.01	3.13	13.14	10.01	3.13	13.14	3.55	-	-
38	Alli Bux Charan	1	2.82	79	2.14	4.27	6.41	2.14	4.27	6.41	2.82	-	-
39	Kashar	1	5.56	73	15.71	3.94	19.65	15.71	3.94	19.65	5.56	-	-
40	Ran Dujner Khan	1	1.45	24	3.51	1.30	4.81	3.51	1.30	4.81	1.45	-	-
41	Farooq Esham Sahib	1	3.61	76	7.33	4.10	11.43	7.33	4.10	11.43	3.61	-	-
42	Karimabad & Jinnahpalli Qureshi	7	3.36	256	0.00	13.82	13.82	0.00	13.82	13.82	3.36	-	-
43	Mohibul Jangran	1	0.20	159	12.64	8.59	21.23	12.64	8.59	21.23	0.20	-	-
44	Wangan Mahari	1	5.26	107	13.42	5.79	19.21	13.42	5.79	19.21	5.26	-	-

NEW TOWNS AND VILLAGES ERR PETITION 2020-21

D-5.5
SINDH

233

Sr. No.	Name of Town / Village	No. of Villages	Total Stains (Kms)	No. of Communes	Cost Rs. In Millions			Cost Rs. In Millions			Cost Rs. In Millions		
					Total Cost		Total	Total Cost		Total	Expected to be Capitalized FY 2019-20 Petition		
					Grant	Own		Over & Above to be Adj. against Grant	Own		Over & Above to be Adj. against Grant	Own	Total
					A	B	(A+B)						Kms
25	Tandri Uthman's Ala Town (Distribution Main)	1	24.13	2027	0.00	64.23	64.23	0.00	64.23	64.23	24.13	-	-
45	Khan Muhammad Chaudhri	1	0.46	6	1.45	0.32	1.77	1.45	0.32	1.77	0.46	-	-
47	Saeed Zair	1	2.70	18	2.63	2.59	5.22	2.63	2.59	5.22	2.70	-	-
48	Yousif Ji Man	1	3.90	157	0.00	8.48	8.48	0.00	8.48	8.48	3.90	-	-
49	Qaim Din Salado	1	0.70	27	0.00	1.46	1.46	0.00	1.46	1.46	0.70	-	-
50	Chulani Sarver Puzalo & Jagan Ji Kuri	2	3.77	111	0.00	6.10	6.10	0.00	6.10	6.10	3.77	-	-
ERR 2020-21:													
1	1. Pak 25 Samejo, Chak 26 Haji Mushaqqa, Junan Khoso, Haji Andri, 20 Rameel, Saleh Muhammad Samejo, Ameer Bux Samejo, Hameel Samejo & Hameel Samejo	5	20.55	598	30.609	54.802	111.481	-	-	-	56.68	54.80	111.48 20.55
2	Azhar Meemon, Muhammad Hashim Samejo, Farooq Chulani, Muhammad Raza, Abdul Sattar Chaudhry & Ahmed Meemon	5	11.07	160	32.165	18.273	50.438	-	-	-	32.17	18.27	50.44 11.07
3	Gul Muhammad Halepoto, Nasser Chaudhry & Masud Chaudhry	4	9.51	213	17.855	13.228	31.083	-	-	-	17.86	13.23	31.08 9.54
4	Aliwood Halepoto & Ali Halepoto	2	5.60	24	17.050	6.915	23.965	-	-	-	17.05	6.92	23.95 5.60
5	Bachan Halepoto & Teraz Chaudhry	2	11.22	262	14.371	22.312	36.683	-	-	-	14.27	22.31	36.58 11.22
6	Melwood Lughar	1	1.40	111	0.28	7.526	7.807	-	-	-	0.28	7.53	7.81 1.40
7	Om Saeir	-	4.80	30	14.761	6.588	21.349	-	-	-	14.76	6.89	21.65 4.80
8	Haji Imran Dax Kura	-	2.80	6	8.810	4.114	12.924	-	-	-	8.84	4.11	12.95 2.80
9	Khalique Dina Salado, Leeman Salado & Mir Muhammad Nazam	1	13.16	311	14.056	29.919	43.995	-	-	-	14.06	29.94	43.99 13.16

NEW TOWNS AND VILLAGES ERR PETITION 2020-21

D-5.5
SINDH

Sl. No.

Name of Town/Village

No. of Villages

Total Mains (Kms)

No. of Consumers

Cost Rs. In Million

Cost Rs. In Million

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NEW TOWNS AND VILLAGES ERR PETITION 2020-21

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SR PETITION 2020-21

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Sr. No.	Name of Town & Village	No. of Villages	Total Maina (Kms)	No. of Consumers	Cost Rs. In Million			Cost Rs. In Million			
					Total Cost			Total Cost			
					Grant	Own	Total	Expected to be Capitalized			
								Over & Above to be Adj against Grant	Own	Total	Kms
A	B	(A+B)	FY 2019-20 Petition	FY 2020-21 Petition	Kms						
23	Phul Jaque Pothwar	1	1.70	26	7.527	2.158	4.685	-	2.57	4.69	1.70
24	Ayamb Malah	1	4.80	36	12.845	6.530	19.375	-	12.85	19.38	4.80
25	Allah Badaya Pothwar	1	3.70	67	7.004	6.768	13.772	-	7.00	13.77	3.70
26	Pir Macraikh	1	3.60	55	7.483	6.081	13.569	-	7.49	13.57	3.60
27	Chulani Hussain Gadhi	1	2.80	30	7.543	4.430	11.973	-	7.54	11.97	2.80
28	Chulani Muhammad Jangl	1	1.20	13	2.117	1.226	3.358	-	2.13	3.36	1.20
29	Ali M. Muhammad Qandani	1	0.93	1	2.170	0.630	2.800	-	2.17	2.80	0.93
30	Khuda Bux Jalm	1	1.80	77	4.906	2.229	7.135	-	4.91	7.13	1.80
31	Meezan	1	7.40	16	3.634	2.079	6.017	-	3.64	6.02	2.40
32	Suhaili Khan Jamal	1	1.40	2	3.164	0.830	3.994	-	3.16	3.99	1.40
33	Phulji	1	4.00	43	11.475	6.917	18.407	-	11.48	18.41	4.00
34	Chuhram Khan Pothwar	1	1.80	36	1.713	2.711	4.424	-	1.71	4.42	1.80
35	Gumra Pothwar	1	0.91	2	2.087	0.607	2.694	-	2.09	2.69	0.91
36	Sandil Khan Pothwar	1	1.02	9	1.918	0.563	2.481	-	1.92	2.48	1.02
37	Dilawal Khan Pothwar	1	1.30	15	2.506	1.539	4.155	-	2.40	4.15	1.40
38	Jangal Khan Gadhi	1	1.25	30	1.222	2.216	3.438	-	1.22	3.44	1.25
39	Khan Muhammad Chellai	1	2.05	24	5.160	3.184	8.344	-	5.16	8.34	2.05
40	Abdul Jib Pothwar	1	0.89	12	1.485	1.051	2.536	-	1.49	2.54	0.89
41	Unar Pothwar	1	0.68	5	1.499	0.485	2.044	-	1.50	2.05	0.68
42	Qasbi Khan Pothwar	1	0.82	30	0.556	1.981	2.537	-	0.56	2.54	0.82
43	Qasbi Muhammad Pothwar	1	0.87	24	0.795	1.687	2.482	-	0.80	2.48	0.87

NEW TOWNS AND VILLAGES ERR PETITION 2020-21

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SINDH

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ERR PETITION 2020-21												SIN		
Sl. No.	Name of Town / Village	No. of Villages	Total Mains (Kms)	No. of Consumers	Cost Rs. In Million			Cost Rs. In Million			Cost Rs. In Addition			
					Total Cost			Total Cost			Expected to be Capitalized			
					FY 2019-20 Petition			FY 2020-21 Petition			FY 2020-21 Petition			
					Grant	Own	Total	Over & Above to be Aided against Grant	Own	Total	Over & Above to be Aided against Grant	Own	Total	Kms
A	B	(A+B)												
40	Mirzo Khan Jund	1	0.82	18	1.015	1.334	2.347	-	-	-	1.01	1.34	2.35	0.82
41	Andal Khan Pajjwer	1	1.15	18	2.093	4.519	6.512	-	-	-	1.69	1.52	3.21	1.15
42	Hani Muhammad Bux Laghari & Khasr Muhammad Laghari	2	0.10	17	14.552	7.112	26.907	-	-	-	19.59	3.21	26.91	0.10
43	Wali Muhammad Laghari & Gazi Dera Ghulam Hyder Laghari	2	9.55	167	15.472	17.388	32.460	-	-	-	15.07	17.39	32.46	9.58
44	Karim Bux Laghari, Gazi Muhammad Laghari, Juma Khan Laghari, Mursi Muhammad Faisan Laghari, Sukhal Village, Muhammad Isma, Mahir & Rhano Malik	7	11.24	174	21.478	17.772	39.250	-	-	-	21.48	17.77	39.25	1.24
49	Chitra Khan Laghari	1	5.20	43	10.426	7.500	20.826	-	-	-	13.23	7.66	20.83	5.10
50	Sar, R. Wazoo, Shahmore Wazoo, Nizam Shah Bakhari, Walon Sanghar, Rajib Wazoo, Muhammad Bux Wazoo & Pahal Wazoo	7	9.70	21	36.545	3.707	34.142	-	-	-	30.95	3.20	34.14	9.30
51	Hafiz Sultan Ahmed Wazoo, Gul Bazar Khan Sanghar, Pichu Khaware, Muhammad Mirad Sanghar, Dil Farid Sanghar Sanghar & Sabal Khan Arifan	6	9.40	57	20.571	3.998	36.569	-	-	-	30.57	6.00	36.57	9.40
52	Haji Mirza Apates & Abdulla Laghari	2	6.84	30	21.228	5.729	26.957	-	-	-	21.23	5.33	26.96	6.84
53	Inqas Sanghar	1	1.50	5	2.920	1.233	4.153	-	-	-	2.92	1.23	4.15	1.50
54	Amir Muhammad Sanghar	1	1.00	24	1.084	1.762	2.848	-	-	-	1.07	1.76	2.83	1.00
55	Unaid Ali Sanghar	1	2.00	30	2.455	2.400	4.955	-	-	-	2.46	2.50	4.96	2.00
56	Mirza Sanghar	2	1.70	13	2.851	1.334	4.685	-	-	-	2.85	1.41	4.69	1.70
	TOTAL	191	514.08	11,807	1,024.75	777.60	1,798.04	322.89	352.50	671.12	741.86	425.10	1,126.96	362.20

Table# D-6.1

2 of 8 - 2020 - 21

S/N	Description	Trillion ERR 20-21				Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits	
		Projected Contribution (Rs in millions)	Addition	Replacement			Total	Ref. Year		FY 2020-21
				Q17	Q18					
Rs in millions										
1	Solar Panel 150W complete with charge controller, 160 amps, 12 vdc Lead Acid battery, 04 LED bulbs, 01 Ceiling fan	1,500	10	-	-	10	HQ-1 & HQ-2	N/A	0.150 Required for lighting arrangement at remote location	
2	Pink, Litter 3 Tin	5,000	1	-	-	1	HQ-3	N/A	5,000 Purifier required for loading & unloading of heavy machinery	
3	Solar Panel 150W complete with charge controller, 160 amps, 12 vdc Lead Acid battery, 04 LED bulbs, 01 Ceiling fan	0,900	6	-	-	6	HQ-1	N/A	0.150 Required for lighting arrangement at remote location	
4	Solar Panel 150W complete with charge controller, 160 amps, 12 vdc Lead Acid battery, 04 LED bulbs, 01 Ceiling fan	0,900	6	-	-	6	HQ-2 & HQ-3	N/A	0.150 Required for lighting arrangement at remote location	
5	Solar Panel 150W complete with charge controller, 160 amps, 12 vdc Lead Acid battery, 04 LED bulbs, 01 Ceiling fan	0,900	6	-	-	6	Section IV	N/A	0.150 Required for lighting arrangement at remote location	
6	Solar Panel 150W complete with charge controller, 160 amps, 12 vdc Lead Acid battery, 04 LED bulbs, 01 Ceiling fan	0,900	6	-	-	6	HQ-04 & HQ-05	N/A	0.150 Required for lighting arrangement at remote location	
7	Pump with 3 Phase motor (Set) acid mounted suction 2.5", Discharge 1.5" 3 Phase 400 VAC, 60 Hz	0,600	1	-	-	1	HQ-04 & HQ-05	N/A	0.600 Required for HQ-04's water supply. Due to old and poor condition existing is beyond expense repair	
8	Generator 15KVA	2,900	1	-	-	1	HQ-05	N/A	2,900 Required for alternate arrangement against main power breakdown	

Details of Plant & Machinery

For F.Y. 2020-21

Table D-6.1

Sl. No.	Description	Petition ERD 20-21				Utility	Unit Cost Comparison Data		Need Assessment Cost Benefits
		Projected Capitalization (Rs. in millions)	Qty				Ref. Year	FY 2020-21	
			Addition	Replacement	Total				
Rs. in million									
9	Solar Panel 150W, complete with charge controller, 100 amp, 12-vdc Lead Acid battery, 04 TLED bulbs, 01 Ceiling fan	0.750	5	-	5	HQ-505	NA	0.150	Required for lighting arrangement at remote location
10	Solar Panel 150W, complete with charge controller, 100 amp, 12-vdc Lead Acid battery, 04 TLED bulbs, 01 Ceiling fan	0.750	5	-	5	HQ-505	NA	0.150	Required for lighting arrangement at remote location
11	Complete solar CP System	7.000	2	-	2	CP (T)	NA	3.500	Additional are req'd for MP-200 on L.B.H. KMP-214 on IRBP to meet high current requirements in these areas
12	Solar Module 150 Watt	1.500	60	-	60	CP (T)	NA	0.025	Additional are req'd for upgrading of existing solar system installed at various locations to meet high current requirement
13	Electric Motor Driven Water Pump Type: Centrifugal 20 HP, 240V RPA/Suction: 4" Discharge: 3" Flow: 400 VAC, 50 Hz	1.600	-	2	2	Trans Admin	NA	1.800	Replacement of existing pumps are required at Gudan Pumping station for supplying water to K.T. Existing pumps involve high cost in repair & maintenance
14	Diesel Engine Driven DC Generator (Welding Plant) 400-150A MP at 30 Volts	4.500	-	1	1	Trans-ERC	NA	4.500	The existing welding plant is 25 years old and lining prediction of current regulation which cause defects in welding. The replacement is deemed economically viable. Therefore new plant is requested for ERC HQ-2
15	Split Sleeve Leak Clamp for pipe-Pipe size: 42" dia Pipe across weld; Spiral	10.000	2	-	2	Trans-ERC	NA	5.000	Required for 42" dia RCNG pipelines to meet any emergency arising due to leakage
16	Leak Clamp with Pilot pin for pipe size: 42" dia	3.990	6	-	6	Trans-ERC	NA	0.665	Required for RCNG pipeline to rectify minor leakages in Emergency
17	Leak Clamp with Pilot pin for pipe size: 24" dia	3.040	8	-	8	Trans-ERC	NA	0.380	Required for minor leakages pinholes mostly on Kuran Pipeline, caused by misuses acts of installing clamps on SDR pipelines instead of, in agreement, parallel passing JARCO and pipelines for straightening

Details of Plant & Machinery

For J. S. 2024 - 21

[79-11-66.]

SN		Description		Petition ERS 70-21			Lifability	Unit Cost Comparison Data		Need Assessment	Cost Benefit
		Projected Capitalization (Rs in million)	Addition	Qty		Ref. Year		FY 2020-21			
				Replacement	Total						
Rs in million											
18	Low Clearance Cold Cutting Machine for 10" to 14" dia Pipe Range	0.400	3	-	1	Trans-ERC	NA	0.400	Cold cutting is to be carried out during Transmission Gas pipe line maintenance and emergency activities. At present hydraulically operated cold cutting machines are available in ERC Shikarpur and Quetta. Since the work is to be carried out in remote areas if any situation of failure of hydraulic engine we remain handicapped. In such situation manually operated cold cutting machines are requisite.		
19	Low Clearance Cold Cutting Machine for 16" to 18" dia Pipe Range	0.480	1	-	1	Trans-ERC	NA	0.480	Cold cutting is to be carried out during Transmission Gas pipe line maintenance and emergency activities. At present hydraulically operated cold cutting machines are available in ERC Shikarpur and Quetta. Since the work is to be carried out in remote areas if any situation of failure of hydraulic engine we remain handicapped. In such situation manually operated cold cutting machines are requisite.		
20	Low Clearance Cold Cutting Machine for 20" to 24" dia Pipe Range	0.550	1	-	1	Trans-ERC	NA	0.550	Cold cutting is to be carried out during Transmission Gas pipe line maintenance and emergency activities. At present hydraulically operated cold cutting machines are available in ERC Shikarpur and Quetta. Since the work is to be carried out in remote areas if any situation of failure of hydraulic engine we remain handicapped. In such situation manually operated cold cutting machines are requisite.		
21	Fork Pallet 5 Ton	10.000	1	-	1	CMG RLNG	NA	10.000	Required for shifting of material from yard area to workshop, store & maintenance job at HQ-2		
22	Fork Lifter 5 Ton	10.000	1	-	1	CMG - Indigenous Gas Handheld	NA	10.000	Required for shifting of material from yard area to workshop, store & maintenance job at HQ-3 comp station		
23	Gas Leak Detector-Laser Methane Leak Detector Handheld	2.900	1	-	1	MPL	NA	2.900	Required for gas leak detection on Transmiss gas pipeline		
24	Dead Weight Tester - Calibration Pressure Range 0 to 100,000 Psi	2.900	1	-	1	MPL	NA	2.900	Required for Gauges & Controller calibration at HQ-3 Station		
25	Gas Engine Generator 20 KVA	9.000	-	2	2	Services	NA	4.500	The existing generators at RS-Golarch, RS-5 & RS-Dandul installed 18 years back have already completed its useful life and are now frequently developing faults and are beyond economical repair. In view of low & order conditions and for smooth & uninterrupted SCADA & Telecom system, the old generators needs replacement.		

Details of Plant & Machinery

For FY 2020-21

Table# D-6.1

For FY: 2020-21

S/N	Description	Projected Capitalization (Rs in million)	Period 2020-21			Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
			Addition	Replacement	Qty			Ref. Year	FY 2020-21	
26	Generator 20 kVA with sound proof canopy	15,000	3	-	3	3	Services	NA	3,000	CNS Sawai, CNS Bar-Qasim and SMS Pakland are located at remote areas and due to law & order situations and for safety reasons, the required fire fighting equipment, these generators are urgently required.
27	Major Overhauling of Gas Engine Generators (4400kW make 3600kW)	6,500	1	-	1	1	Services	NA	5,500	This Generator is kept in standby arrangement for any break down of main generators at HQ. Major overhauling is due as it has completed running hours recommended by manufacturer. It is will increase life of Generator and shall be utilized at other location after Major overhauling.
28	Top Overhauling of Gas Engine Generators 200KVA	13,500	3	-	3	3	Services	NA	4,500	These Generators are power source of electricity at HQ-Shikarpur, HQ Quetta & G.M (Haji) Office Korangi - Karachi. These generators have completed more than 13000 running hours. Top overhauling as per recommendation of manufacturer is due which will increase life of Generators.
29	Modernization of Elevators at Head Office.	-	-	-	-	-	Services	NA	-	Additional budget is required for modernization of 12 years old elevators at Head Office.
30	Renovation of Electrical wiring for staff colony at HQ and HQ - Dada	2,000	10	-	10	10	Services	NA	0.200	Due to frequent short circuit and breakdown, the two decades old wiring & switch gears need urgent replacement as it is dangerous for human lives & house appliances.
31	Renovation of Electrical wiring, switch boards, Distribution Boards, Lights Fixtures, Ceiling & Exhaust fans at 11 Nos. CECs in Karachi.	1,200	6	-	6	6	Services	NA	0.200	Mostly wirings are old that results in frequent faults & damaging costly equipments and are also very dangerous for human lives in case of any short circuit.
32	Water Heater System for Head office building	1,500	-	1	1	1	Service	NA	1,500	The existing Water Heating system has completed 20 years useful life. The model being obsolete is now beyond repairing and needs urgent replacement.
33	37KW VFD for HVAC System H.O	1,350	-	3	3	3	Services	NA	0.450	Existing VFDs are beyond repair due to obsolete model as such needs urgent replacement.
34	Gas Flow Computer & Screens	14,000	-	2	2	2	Measurement, Monitoring & Transmission	NA	7,000	25 Nos. 4 Stream Gas Flow Computers of Emerson Process USA, Model - FB-107 are in operation in entire Transmission Network. The vendor has informed that this model is now obsolete and they will not be able to provide spares of this model in future. These flow computers were produced during last 25 years time and frequent defects & stoppage of their installations. Therefore, we have placed an order to replace 25 flow computers in FY:2020-21 to increase the reliability.

Details of Plant & Machinery

Table 17-6.1

Petition Fall 20-21

Sl. No.		Description	Budget FY 20-21				Qty	Utility	Unit Cost Comparison Data		Need Assessment	Cost Benefit	
			Projected Capitalization (Rs in million)	Addition					Total	Ref. Year			FY 2020-21
				Replacement									
Rs in million													
25	Gas Flow Computer (Stream)	0.000	-	3	3	Measurement Metering Transmission	NA	2.000	28 Nos. 1-Stream Gas Flow Computers of different make and models are in operation on Transmission Network. These flow computers were procured during last 11 years time and require defect develop at older installations. Therefore, we have planned to replace 03 Flow Computers in FY-2020-21 to increase the reliability.				
26	Multifunction Calibrator	4.000	-	2	2	Measurement Metering Transmission	NA	2.000	02 are required to provide to (Mers. Trg) Teams of various Head Quarters for calibration of flow computers and EVGs installed at SMSs Check Meters, for saving company resources and time.				
27	Actuator for 16" dia. Ball Valve	8.000	4	-	4	Measurement Metering Transmission	NA	2.000	Required for 03 Nos. Metering seals for RLNG installed at Malva Pakland in control supply of RLNG, from Gas Control RT to SNGPL and Karachi Office as per supply and demand and				
28	Explosion proof torches	0.050	10	-	10	Measurement Metering Transmission	NA	0.005	Required for use in hazardous area at PCD check meters, SMSs and CTGs.				
29	Digital Multimeters	0.225	3	-	3	Measurement Metering Transmission	NA	0.015	Required for repair/maintenance of Flow Computers, EVGs, TDCs and so on charge controllers at RT and Meter-Trans work shops at Head Quarters.				
40	Emerson Battery Charger (12 VDC, 100 Amps)	0.150	1	-	1	Measurement Metering Transmission	NA	0.150	Required for charging of batteries of various equipment of Measurement Section.				
41	HAART Calibrator for	2.000	1	-	1	Measurement Metering Transmission	NA	2.000	Required for calibration of orifice meters and smart transmitters installed at SMSs & PCD Check Meters.				
42	On-line Gas Chromatographs	36.000	-	3	3	GCCL	NA	12.000	On-line Gas Chromatograph units to be replaced were procured in the year 2004 and are now obsolete & their spares are no more available from the OEM. Therefore, replacement of these units is essentially required at SMSs & PCD Check Meters.				
43	Heads type Gas Chromatograph	12.000	1	-	1	GCCL	NA	13.000	Heads type gas chromatographs are required one for SMSs use for Natural Gas to be placed at Lab RT for analysis of sample of SNG. NG received from large number of LC-Air Mtr Plant being installed & Natural gas from Distribution & Transmission network for Energy head in line to respective customers.				

Sri Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2020 - 21

Table# D-4.1

S/N		Description	Petition EIR 20-21			Utility	Unit Cost Comparison Data		Need Assessment/ Cost Rationale
			Projected Capitalization (Rs in million)	Addition	Replacement		Total	Ref. Year	
Qty									
As in million									
44	1 PS 3KVA	2.500	-	5	5	5	NA	0.500	On-line UPS units to be replaced one old and not replaceable, installed at different Gas Quality monitoring locations, SMSs & WCD check meter stations on Transmission network. The entire replacement of these units is essentially required to meet the operational requirement.
45	Air Compressor - 3 hrs Pressure - 100 Psi	2.800	1	-	1	1	DSM DISTRIBUTION CENTRAL REGION	2.800	Required for operational maintenance
46	Tire Drilling Machine	2.000	2	3	5	5	DSM DISTRIBUTION CENTRAL REGION	0.400	Required to equipped all Maintenance teams, in order to attend less pressure complaints and to stop gas during rectification.
47	Pipe Squeezing Machine Steel (With Hydraulic Pump)	2.100	2	2	6	6	DSM DISTRIBUTION CENTRAL REGION	0.150	Required for Filler team for stoppage of gas leakage during emergency.
48	Pipe Squeezing Machine Steel (With Hydraulic Pump)	1.600	2	2	4	4	DSM DISTRIBUTION CENTRAL REGION	0.400	Required for Welding teams for necessary repair and rectification work
49	Welding Plant - DC GENERATOR, 400-450 AMPS, DCE	7.000	1	1	2	2	DSM DISTRIBUTION CENTRAL REGION	1.500	Require to establish new teams to meet the targets and replacement of existing team No
50	Dewatering Pump	4.800	2	2	4	4	DSM DISTRIBUTION CENTRAL REGION	1.200	Required for dewatering during rectification jobs
51	Generator 5KVA	0.500	-	2	2	2	CONSTRUCTION AND LAYING DISTRIBUTION CENTRAL REGION	0.250	Required for P.F. Items
52	Air Compressor - Low Pressure - 100 Psi	2.800	-	1	1	1	CONSTRUCTION AND LAYING DISTRIBUTION CENTRAL REGION	2.800	Required for Distr. Control S.T.
53	Generator 5KVA	1.000	2	2	4	4	REPAIR FACTORY DISTRIBUTION CENTRAL REGION	0.250	Required for P.E. Welding teams Replacement required for defective
54	Water Pump (Diaphragm Type)	1.200	1	-	1	1	DISTRIBUTION CENTRAL REGION	1.200	Required for de-watering during rectification jobs.
55	Electro Fusion Machine	2.400	4	4	8	8	DISTRIBUTION CENTRAL REGION	0.100	Required for P.E. Welding teams. Replacement required for defective

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Sue Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2020-21

Table D-6.1

S/N	Description	Position EQCR 20-21			Projected Contribution (Rs in millions)	Qty		Utility	Unit Cost Comparison Data		Need Assessment / Cost Benefit
		Addition	Replacement	Total		Ref. Year			FY 2020-21		
Rs in million											
56	Welding Plant - DC GENERATOR, 400-450 AMP, D/E.	3.500	1	-	1		UTILIZATION (END) DISTRIBUTION CENTRAL REGION	NA	3.500	Require to establish new teams to meet the target.	
57	Generator 3KVA	1.000	2	2	4		UTILIZATION (SERVICE SECTION) DISTRIBUTION CENTRAL REGION	NA	0.750	Replacement required against Asset # 02250 (2005) & Asset # 00300 (2005) which is beyond economic repair	
58	Electric Fusion Machine	1.800	2	4	6		UTILIZATION (SERVICE SECTION) DISTRIBUTION CENTRAL REGION	NA	0.300	Replacement against old ones which beyond economic repair	
59	Transformer Rectifier - (HT Cooled)	7.000	15	5	20		UP (7)	NA	0.350	For Cathodic Protection of Unprotected Inlet and Outlet pipeline 09 nos TR for normal CAPEX Budget: FY 2020-21 @ 06 nos. for NGEP Project 1-05 Nos. CP West Region / 03 Nos CP East Region / 01 Nos CP Central Region.	
60	Electric Fusion Machine	0.900	1	2	3		MAINS LAYING (CONSTRUCTION) EASTERN REGION	NA	0.100	Required for P.E. Welding teams, replacement of old / defective machines	
61	Butt Fusion Machine (Weld Assembler)	1.600	1	1	2		MAINS LAYING (CONSTRUCTION) EASTERN REGION	NA	0.800	Required for P.E. Welding teams, replacement of old / defective machines	
62	Generator 5KVA	0.600	1	2	3		MAINS LAYING (CONSTRUCTION) EASTERN REGION	NA	0.200	Required for P.E. Welding teams	
63	Generator 5KVA	0.400	-	2	2		UP (Service) EASTERN REGION	NA	0.200	Replacement due to high maintenance cost	
64	Electric Fusion Machine	0.600	-	2	2		UP (Service) EASTERN REGION	NA	0.100	Replacement due to high maintenance cost	
65	Electric Fusion Machine	1.200	2	2	4		Rehabilitation Section - Eastern Region	NA	0.100	Required for P.E. Welding teams, replacement of old / defective machines	
66	Generator 5KVA	0.600	2	1	3		Rehabilitation Section - Eastern Region	NA	0.200	Required for Gas East Kowak	
67	Generator 3KVA	0.600	1	2	3		UP EASTERN REGION	NA	0.200	Required for P.E. Welding teams	
68	Electric Fusion Machine	0.600	2	2	4		UP EASTERN REGION	NA	0.150	Required for P.E. Welding teams	
69	Weld Pump (Diaphragm Type)	1.200	-	1	1		UP EASTERN REGION	NA	1.200	Required for Emergency work	
70	Pipe Squeezing Machine (1", 2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 22", 24", 26", 28", 30", 32", 34", 36", 38", 40", 42", 44", 46", 48", 50", 52", 54", 56", 58", 60", 62", 64", 66", 68", 70", 72", 74", 76", 78", 80", 82", 84", 86", 88", 90", 92", 94", 96", 98", 100")	1.600	3	1	4		UP EASTERN REGION	NA	0.400	Required for Steel Welding teams	

Sul Southern Gas Co. Ltd.
Details of Plant & Machinery
For FY: 2020 - 21

Table# D-6.1

S/N	Description	Projected Capitalization (Rs in millions)	Petition ECR 20-21			Utility	Unit Cost Comparison Data		Need Assessment / Cost Benefits
			Addition	Replacement	Total		Ref. Year	FY 2020-21	
71	1-5 Drilling Machine	1.200	-	1	1	DSM-WESTERN REGION	NA	0.400	Required in equipped all maintenance teams, in order to attend low pressure complaints and to repair gas leaking installations
72	Electric Fusion Machine	0.600	1	-	1	DSM-WESTERN REGION	NA	0.700	Additional required by maintenance team for PE network
73	Generator 5KVA	0.400	-	2	2	DSM-WESTERN REGION	NA	0.200	Required for above Eastern machines
74	Pipe Squeezing Machine Steel (With Hydraulic Pump)	0.700	-	2	2	DSM-WESTERN REGION	NA	0.350	Required for fitting leaks for stoppage of gas leakage due to emergency
75	Pipe Squeezing Machine Steel (With Hydraulic Pump)	0.800	-	2	2	DSM-WESTERN REGION	NA	0.400	Required for welding teams for necessary repair and verification work
76	Dewatering Pump	0.500	-	2	2	DSM-WESTERN REGION	NA	0.250	Required for de-watering during reconstruction jobs
77	Pipe squeezing Machine 20mm To 63MM	1.800	2	1	3	CONSTRUCTION WESTERN REGION	NA	0.500	Required for P.E. Teams
78	Generator 5KVA	0.200	-	1	1	MAINTAINING WESTERN REGION	NA	0.250	Required for P.E. Teams
79	1" Drilling Machine	0.400	1	-	1	UN (Industrial)- WESTERN REGION	NA	0.450	For Steel Welding Team
80	Generator 5KVA	0.400	-	2	2	UN (Service)- WESTERN REGION	NA	0.200	Replacement required against Asset # 00253 (2015) & Asset # 40100 (2002) which is beyond economical repair
81	Electric Fusion Machine	0.600	-	2	2	UN (Service)- WESTERN REGION	NA	0.300	Replacement against old ones when beyond economical repair
82	Generator 5KVA	0.600	-	3	3	REHABILITATION WEST	NA	0.200	Required for P.E. Welding teams Replacement required for defective
83	Water Pump (Diaphragm type)	1.200	1	-	1	REHABILITATION WEST	NA	1.200	Required for de-aerating during reconstruction jobs
84	Electric Fusion Machine	1.200	2	2	4	REHABILITATION WEST	NA	0.300	Required for P.E. Welding teams Replacement required for defective
85	Generator 50KVA	5.000	-	1	1	Billing	NA	5.000	Working is delayed due to no electricity as the existing generator cannot bear the load of whole building and cause a critical cost of order. There are two Drilling Zones (Lanchi and Mulli). CTC, CRT, are also exist in the premise
86	Suction Pump	0.025	1	-	1	Billing	NA	0.025	For use of Zonal office
87	Generator 6KVA	0.600	-	2	2	Measurement Data Billing	NA	0.300	Replacement of Old Generator of Mobile Field Pricing Unit

S/N	Description	Petition FMR 20-21			Utility	Unit Cost Comparison Data		Need Assessment	
		Projected Capitalisation (Rs in million)	Addition	Replacement		Total	Qty		
								Ref. Year	FY 2020-21
Rs in million									
88	Paint Booth	4,000	1	-	1	MRS	NA	6,000	Complete set of painting booth as per HSE standards is required
89	Lash Machine 5 HP	0.600	1	-	1	MRS	NA	0.600	It is required for mauling work in definite meters
90	Welding Plant	14,000	-	4	4	DISTRIBUTION NORTH (LS)	NA	3,500	Additional required for 1 No for construction of NTV depth & 1 No. for Tando Hyder Subzone and 1 No. for Khoski Sub Zone Replacement is required for replacement of 4 No 1996 Model which have become out of order for Industrial Section, S&C Section, Rehab Section and Construction Section (Welding) at each section
91	Air Compressor -250 CFM, 100 psi	5,600	-	2	2	DISTRIBUTION NORTH (LS)	NA	2,800	Additional Required for Tando Hyder and Shahdahan subzones Replacement required for 1 No old one of order compressor of industrial section & 1 No for Tando A, B, C, D Subzone
92	Air Compressor (small size & pressure) 15 psi	0.100	2	-	2	DISTRIBUTION NORTH (LS)	NA	0.050	Required for testing the new line of domestic customers for reinstallation
93	Steel Pipe Squeezing Machine	0.700	2	-	2	DISTRIBUTION NORTH (LS)	NA	0.350	Additional required for Maintenance Hyderabad for cutting of service line of industrial connections at high pressure
94	Steel Pipe Squeezing Machine	0.400	1	-	1	DISTRIBUTION NORTH (LS)	NA	0.400	Additional required for Maintenance Hyderabad for cutting of service line of industrial connections at high pressure
95	Generator 55KVA	0.600	3	-	3	DISTRIBUTION NORTH (LS)	NA	0.200	Additional is required for PE Connections & PE Mains lay the work to established new line in Utilization department & at Sub Zones of Hyderabad Region
96	Electric Pallet Machine	0.900	3	-	3	DISTRIBUTION NORTH (LS)	NA	0.300	Additional is required for PE Connections & PE Mains lay the work to established new line in Utilization department
97	1 Drilling Machine	1,500	1	2	3	DISTRIBUTION NORTH (LS)	NA	0.500	Additional required for Sub Zone of Hyderabad Region to equip the Zones & Sub Zones Replacement required for out of order Machine of S&C Hyderabad & T. Hana
98	Pipe Bending Machine	0.500	5	-	5	DISTRIBUTION NORTH (LS)	NA	0.100	Additional 1 no for each zone to bend the GI pipe for U Bend connection
99	Downing Pump	1,200	1	-	1	DISTRIBUTION NORTH (LS)	NA	1,200	Required for Rehabilitation Department where unemployed area exists
100	Downing Pump	0.900	3	3	6	DISTRIBUTION NORTH (LS)	NA	0.150	Replacement for old at Maintenance, U.D Hyderabad & Kohab Dept. Additional required for Kohab & Sub stations at Hyderabad Region to equip the Zones & Sub Zones
101	Odoriser Unit	75,000	15	-	15	DISTRIBUTION NORTH (LS)	NA	5,000	Additional required at Bagar / Rajp / Jinnah, Colonial, Baskin, Ethen Substation of Hyderabad Region, Paduan or Kharabakh Region and for Jinnah and Sukkur Region

S/N	Description	Projectal Capitalisation (Rs in millions)	Petition EKR-2021			Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
			Addition	Replacement	Total				
							Qty		
102	Welding Plant	3,500	-	-	-	MAINTENANCE	N/A	3,500	Replacement required for Old one.
103	Air Compressor	2,800	-	-	-	MAINTENANCE	N/A	2,800	Replacement required for Old one
104	Steel Pipe Squeezing Machine	0,700	2	-	-	MAINTENANCE	N/A	0,350	Additional required for different maintenance activities
105	Generator 5KVA	0,200	1	-	-	MAINTENANCE	N/A	0,200	Additional required to provide electricity for all electrical maintenance work at sites while existing generators are affected with P.F. electric fusion work.
106	P.L. Pipe Squeezing Machine	0,200	1	1	2	MAINTENANCE	N/A	0,100	Required for different maintenance activities to stop the gas in emergency. Mostly two squeezing machines are used to stop the flow of gas from both sides of pipeline. To meet the emergency in all zones of Hyderabad Region, we require one more additional machine.
107	Electro Fusion Machine	0,350	1	-	-	MAINTENANCE	N/A	0,350	Required for emergencies & leak rectification & Pipeline eradication jobs
108	Dewatering Pump	0,250	1	-	-	MAINTENANCE	N/A	0,250	Required for dewatering of small pits during repair maintenance activities during drainage over flow in the streets
109	Dewatering Pump	0,450	1	2	3	MAINTENANCE	N/A	0,150	Required for dewatering of small pits during repair maintenance activities during drainage over flow in the streets
110	E.S Machine	0,800	1	-	-	MAINTENANCE	N/A	0,800	Required for pipeline Maintenance activities in all zones of Hyderabad Region
111	D-S Drilling Machine	0,700	1	-	-	MAINTENANCE	N/A	0,700	Required for pipe & Maintenance activities in all zones of Hyderabad Region
112	T Drilling Machine	1,000	1	1	2	MAINTENANCE	N/A	0,500	Required for drilling work of pipe laying in all zones of Hyderabad Region.
113	Transformer Rectifier - Oil Cooled	7,000	15	5	20	CP (O)	N/A	0,350	For Cathodic Protection of Unprotected Underground Gas pipeline of nos TB for annual CAPEX Budget FY 2020-21 (San LTV) Target 2020-21 & O&M Ex-NERGY Project
114	Generator 50KVA	3,500	1	-	-	MES	N/A	3,500	In Order to continuous power supply in Regumal Office Hyderabad, progress with respect UFG Special project is fully being affected. Tar enhancement of pipelines, uninterrupted power supply is essentially required. In view of the facts, the same is being proposed
115	Generator 55KVA	0,250	-	1	1	Maintenance Distribution	N/A	0,250	Replacement required for GRT generation which is out of zone
116	Welding Plant	17,500	5	-	-	DISTRIBUTION FOR NORTH ZONE	N/A	3,500	1 No each additional requiring for Sub Zone's Poyoda, K.Panipat Mahor, Setasraja, Rohini & Kodari

Details of Plant & Machinery

For F.Y. 2020 - 21

Table# D-6.1

SN	Description	Petition ECR 20-21			Utility	Unit Cost Comparison Data		Need Assessment/ Chal. Benefits
		Projected Capitalization (Rs in million)	Qty			Ref. Year	FY 2020-21	
			Addition	Replacement				
Rs in million								
117	Electro Fusion Machine	1,500	3	-	5	DISTRIBUTION NORTH (US)	NA	0.300 Required for Rohn & Passo And Sub-Zone & rehabilitation work to meet the targets
118	T-J Drilling Machine	4,000	10	-	30	DISTRIBUTION NORTH (US)	NA	0.400 Required for JD & Zanes / Sub Zones of Sukkur Region
119	Drumming Pump	0.150	1	-	1	DISTRIBUTION NORTH (US)	NA	0.150 Required for R & O Sukkur
120	Transformer Rectifier - Oil Cooled	3,500	10	-	10	CP (U)	NA	0.250 For Cathodic Protection of U-pipeline: Underground Gas pipeline, 05 mm. TR for normal CAPEX Budget FY 2020-21 (for UFG Target 2020-21) & 05 mm UFG-NEEP Project
121	Generator 5KVA	1,200	2	-	2	CP (U)	NA	0.600 Required for supplying electricity during the recording of PGP readings & attending the ground bed faults of CP source point at the time of monthly/ weekly visits of locations where power
122	Generator 5KVA	1,500	5	-	5	Billing	NA	0.200 To supply electricity during power failure (Zanes Sub-Zones) UFG-Coth (2) Charak (3) Mirpur Mathelo (4) Gochi (5) Renpur
123	Welding Plant	17,500	-	5	5	DISTRIBUTION NORTH (US)	NA	3.500 Replacement required against irreparable / old model welding plant of FY 2003-11
124	Electro Fusion Machine	1,400	-	4	4	DISTRIBUTION NORTH (US)	NA	0.350 Replacement required against irreparable / old model Electro fusion Machines
125	Generator 20KVA	3,000	2	-	2	DISTRIBUTION NORTH (US)	NA	1,500 Additional required for Zonal Offices Hyderabad and Sanghar for power generation during breakdown of electricity
126	T Drilling Machine	1,500	-	1	3	DISTRIBUTION NORTH (US)	NA	0.500 Replacement required against irreparable / old model Machines being available at different locations of NShad Region
127	D-5 Drilling Machine	0,700	1	-	1	DISTRIBUTION NORTH (US)	NA	0.700 Additional required for commissioning / drilling of new developed schemes at Hyderabad & Sanghar zones
128	Pipe Bending Machine	0.200	2	-	2	DISTRIBUTION NORTH (US)	NA	0.100 Additional required for Zonal Offices Hyderabad & Sanghar
129	Generator 5KVA	0,000	2	-	2	Billing	NA	0.200 For Billing Section of Zone & Sub Zones
130	Welding Plant	10,400	1	2	3	DISTRIBUTION NORTH (US)	NA	3,500 Additional required for Shadadkot Sub-Zone Replacement required for plants 3 nos. R & O Lucknow & 1 No. at Thul, as the welding plants there became very old and are beyond economical scope.

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2020 - 21

Table D-6.1

Period F.Y. 2020-21										Need Assessment/ Cost Benefits
SN	Description	Projected Capitalization (Rs. in million)	Period F.Y. 2020-21			Utility	Unit Cost Comparison Data			
			Addition	Replacement	Total		Ref. Year	FY 2020-21		
									Qty	
Rs. in million										
121	Electric Fusion Machine	0.600	2	-	2	DISTRIBUTION NORTH (US)	NA	0.300	Required for Rohri & Pano Aqi Soli Zone	
122	Air Compressor	2.800	-	1	1	DISTRIBUTION NORTH (US)	NA	2.800	Replacement required for compressor at Jacobabad zone as the same is very old & beyond economical repair	
133	Generator SKVA	0.800	-	4	4	DISTRIBUTION NORTH (US)	NA	0.200	Replacement required for Sub Station offices of Kandahar, Herat, Nistrabad and Radhan for operational activities as the existing generators become very old and are beyond economical repair.	
134	Welding Iron 400 Amp	21.000	1	5	6	DISTRIBUTION NORTH BALUCHISTAN	NA	3.500	Required for Kuchlak, Pishin and replacement of Candi, Samungli, Mastuzana, Sarish, and Sibi	
135	Air Compressor	5.600	1	1	2	DISTRIBUTION NORTH BALUCHISTAN	NA	2.800	Required for Pishin and replacement of Candi, Samungli, Mastuzana, Sarish, and Sibi	
136	T Drilling Machine	2.400	2	4	6	DISTRIBUTION NORTH BALUCHISTAN	NA	0.400	Add 102 nos for Mastuz & Kuchlak and replacement for Sibi, Pishin, Sarish, Mastuz & Samungli and Candi	
137	10-5 Drilling Machine	2.100	1	2	3	DISTRIBUTION NORTH BALUCHISTAN	NA	0.700	Add 102 Nos for Mastuz & Kuchlak and replacement for Sibi, Pishin, Sarish, Mastuz & Samungli and Candi	
138	Generator Unit	12.500	3	-	3	DISTRIBUTION NORTH BALUCHISTAN	NA	2.500	Add 102 Nos for Mastuz.	
139	Transformer Rectifier	4.550	10	2	13	CP-ID	NA	0.150	For Cathodic Protection of Unprotected Underground Gas pipeline nos. 1R for name CAPEN Budget FY 2020-21 (for UFG-Target) & 05 nos Ex-NGEP Project.	
140	MU-300 Multiple Drilling & Tapping Machine	8.000	-	1	1	MNG	NA	8.000	To replace the existing MU-300 drilling and tapping machine which is more than 25 years old and has already completed useful life. The performance of the machine is not as good as the new machine. The machine is not meeting the requirement.	
141	Threading Machine 7.5	2.500	-	1	1	MNG	NA	2.500	To replace the existing 7.5 threading machine which is more than 10 years old. The performance of the machine is not meeting the production requirement.	
142	Air Conditioning Plant 30 Tons 3.51 (100 BTU)	7.000	-	2	2	MNG	NA	3.500	Required for G-4 Assembly Hall, G-4 Administration and Pishing Area. The existing AC plant of 20 tons is more than 15 years old and has become unserviceable beyond economical. The unit was covering G-4 Assembly Hall only.	

Southern Gas Co. Ltd.
Details of Plant & Machinery

Table# D-6.]

For E.Y. 2020 - 21

Fiducian ERQ 20-21							
S/N	Description	Projected Capitalization (Rs in million)	Addition		Replacement	Total	Utility
			Qty				
Lumpsum		(245,000)					
Red need Rationalized							
Revised Total		457,360					
Per m utility;							

Sui Southern Gas Company Limited
Detail of Motor Vehicles
For F.Y. 2020-21

Annexed Exhibit

Table D-6.3

Rs. in Millions

Table D-6.3

Rs. In Millions

Cost Benefit Analysis

SN	Description	Projected Cost To Millise	Per Unit ERK 20-21			Total No. of Units	Unit Cost (Amortisation Basis)		FY 2020-21	Need Assessment	Cost Benefit Analysis
			Acquisition Budget	Replacement Budget	Ref. Year		FY 2020-21				
1	Ambulance	10,000	-	1	-	1	N/A	N/A	10,000	1. Enhancement of LPG reduction oriented activities and expansion in transmission and Distribution Network 2. Provision of connections to new customers in the existing areas, new towns and villages of South and Balochistan. 3. Beefing up surveillance & monitoring 4. The replacement of old vehicles which have become redundant has also been proposed during F.Y. 2020-21. The old vehicles have become uneconomical and due to frequent breakdowns are badly affecting efficiency. 5. Allocated Cars are purchased by outgoing/retiring Executives as per service rules, additional cars have been budgeted for prospective promotions. 6. Out of 490 vehicles, 214 vehicles (excluding 164 MCycles) are operational, while only 92 vehicles are non-operational. Also, 161 vehicles (excluding 98 MCycles) are replacement of old in-use/unused vehicles.	
2	Body Fabrication for Pickup 800 CC Single Cabin	20,600	-	-	-	N/A	N/A	N/A			
3	Car 1000 CC	101,900	40	24	64	2018-19	1,592	1,592			
4	Car 1300 CC	45,000	9	7	16	2018-19	2,174	2,000			
5	Car 1800 CC	48,000	7	5	12	2018-19	2,913	4,000			
6	Crane Mounted Mini Truck	10,000	-	1	1	N/A	N/A	10,000			
7	Four Wheelers Bike	6,000	10	-	10	N/A	N/A	6,000			
8	Fuel Tanker	20,000	-	2	2	N/A	N/A	14,500			
9	4x4 Road Van	71,300	25	40	65	2018-19	8,140	1,100			
10	Plate Van	43,000	-	7	7	2017-18	4,192	4,857			
11	Motorcycle 125 CC	7,400	4	12	16	N/A	N/A	0,150			
12	Motorcycle 70 CC	11,100	62	86	148	N/A	N/A	0,075			
13	Pickup 800 CC	70,000	14	55	70	N/A	N/A	1,000			
14	Pickup Double Cabin 4x4	5,500	-	1	1	2018-19	4,804	5,500			
15	Pickup Single Cabin 4x2	192,200	13	40	53	2018-19	2,760	3,026			
16	Pickup Single Cabin 4x4	105,000	-	21	21	N/A	N/A	5,300			
17	Tractor	8,700	3	-	3	N/A	N/A	2,000			
18	Vehicle Tracking System	1,200	-	-	-	N/A	N/A	N/A			
19											
GRAND TOTAL		792,100	184	302	490						

Sui Southern Gas Company Limited
Detail of Motor Vehicles
For FY 2020-21

Approved Per-ru

Table D-6.3

Rs. in Million

S.N	Description	Proposed Cost Rs. Million	Additional Units	Replacement Units	Total No. of Units	Unit Cost Comparison		FY 2020-21	Need Assessment	Cost Benefit Analysis
						Ref. Year	Base			
1	Amnula No	10,000	-	1	1	N/A	N/A	10,000		
2	Body Fabrication for Pickup 800 CC Single Cabin	10,600	-	-	-	N/A	N/A	N/A		
3	Car 1600 CC	131,900	40	24	64	2018-19	1,315	1,592		
4	Car 1700 CC	16,000	9	7	16	2018-19	2,374	3,030		
5	Car 1800 CC	48,000	7	3	12	2018-19	3,913	4,030		
6	Crane Mounted Mini Truck	10,000	-	1	1	N/A	N/A	10,000		
7	Four Wheelers Bike	6,000	10	-	10	N/A	N/A	0,600		
8	Fuel Tanker	29,000	-	2	2	N/A	N/A	14,500		
9	Hi Roof Van	21,500	25	40	65	2018-19	8,140	1,100		
10	Hiace Van	41,000	-	7	7	2017-18	4,192	5,857		
11	Motorcycle 125 CC	2,400	4	12	16	N/A	N/A	0,150		
12	Motorcycle 70 CC	11,100	62	36	148	N/A	N/A	0,075		
13	Pickup 800 CC	70,000	15	55	70	N/A	N/A	1,000		
14	Pickup Double Cabin 4x4	5,500	-	1	1	2018-19	4,804	5,500		
15	Pickup Single Cabin 4x2	192,200	13	40	53	2018-19	2,760	3,620		
16	Pickup Single Cabin 4x4	105,000	-	21	21	N/A	N/A	5,000		
17	Tractor	6,700	3	-	3	N/A	N/A	2,000		
18	Vehicle Tracking System	1,200	-	-	-	N/A	N/A	-		
19										
GRAND TOTAL		772,100	188	303	491					

Reduced/Rationalized Investment (377,000)

Revised Total

395,100

S No.	Description	Estimated R.Y. 2020-21	Estimated R.Y. 2020-21	Need / Justifications
1	Construction of Care taker rooms		0.000	Care Taker Rooms Required for Security guards at Daski Canal OHG MP-77, UZ US
2	Re-construction of bwall enclosure at RS Jhalpan		1.900	Required to repair and extension of CC Flooring at MVA C-2 & dislatch to protect valve assembly and pipeline
3	CC Fixing of above ground MPL structure / setup at CTS Bin Qasim		5.000	Newly flooring is required under the Pipeline Structure of MVA Interd to stop the development of wild grass to maintain the housekeeping.
4	Construction of new Care Taker room		1.800	New pump required for care takers installation of new solar system at Joti slakk kmp.
5	Solar Pump		2.520	Additional are req'd for MP-798 on ILB1, KM-418 on IRBP to meet high current requirements in these areas.
6	Care Taker Room		1.900	Additional are req'd for MP-309 on ILBP & KM-372 on IRBP as there is no water room with CP station.
7	Supply & Fixing of Civil and Masonry work for Tiles at Basement (Offices - Power House Area) HD		1.500	The existing floor of Power House & other HD-Basement area is badly damaged as such dust is greatly accumulating in the area which is not good for the equipment & machine. AS such complete tile flooring work is urgently required for making area dust free that in turn shall not only increase the life of equipment but also shall contribute to good house keeping.
8	Construction of Transit rooms at CTS-Sawan.		0.000	CTS-Sawan is located in HQ-1 Nukkur and to & fro travelling takes about 03-hours. Therefore construction of Transit Rooms (02-Bed Rooms, wash rooms & Kitchen/Dining, Store etc) is required for Executives and staff of the company and Representatives of SNGPL, visiting the station for Operation/Maintenance and Joint Meter Readings and Joint Meter Checks, to complete the jobs in one visit and thus saving time and resources of Company.
9	Analyzer Shelter' Room		3.000	Proposed Analyzer Shelters are required at different POU Check Meters' Sides where, GC rooms are not available. These units will be portable type equipped with on-line GC, Moisture analyzer, Flow computer etc and complete shelter can be moved from one location to other to meet operational requirement of Check meters with respective gas fields.
10	White wash of KT Medical Centre		0.900	White wash was done in 2014
11	White wash of HD Medical Centre		0.500	White wash was done in 2014

S.No.	Description	Project F.Y. 2020-21	Revenue Expenditure Rs Million	Need / Justifications
12	Construction of Barracks for Uniformed Staff at Kandaji Camp		0.000	Current Barracks are very old and due to non compliance HSE policy. Hence ROC construction of 03 Nos Barracks is required.
13	Construction of Wash Room for Dope Yard Section		0.000	Required Executive & Staff for Dope Yard Section
14	Replacement of Main Gate Size 20' x 8' (150 Sq/ft)		0.500	The main Gate is very old and repaired many times. Now the condition of the gate is very critical.
15	Construction of Boundary wall at KT stores Department		0.000	Boundary wall between SSGC Stores Department and NED university is standing in a dilapidated condition, suspicious to collapse during rains. Therefore need immediate reconstruction for safety and security issues.
16	Construction of store yard at IQ2		3.000	Boundary wall between SSGC Stores Department and NED university has become in critical keeping in view of security issues this boundary wall require Reconstruction or Reinforcement
17	Epoxy Paint on floor at Commercial Section		1.000	It is required for commercial & Industrial meter testing & repair section due to the frequent movement of heavy motors
18	Electric Panels for Building & Prover		1.000	It is required to upgrade the capacity to meet enhanced load
19	50 w LED Light's on Boundary Walls		0.150	Currently as there is no any light at boundary wall, so this is required for security & safety purpose
20	False ceiling in Commercial Repair Hall and R&D Section		0.225	It is required for effective air conditioning in sections
21	Ceiling LED Light 2' x 2'		0.250	Required for proper illumination
22	Construction of Store Room		2.000	Required for keeping record of Sales Department and will be constructed on total of a.c
23	Replacement of TMS/PCS Cages (Fencing)		3.000	Mostly the fencing of meter regulation stations are damaged and needs repair, renovation to promote the company vision.
24	Block wall (Admin Block)		1.000	The concern of Sr. Management on the aggravated outlook of SSGC Regional Office Building Quetta. Approved and estimated by Sr.GMD and I/C DGM (Civil Works) on the directives of MD SSGC on his visit 03rd May 2016.

Details of Buildings
For F.Y 2020 - 21

S.No.	Description	Proposed 2020-21	Revenue Rs. Million	Need / Justifications
25	Powers Inside Office Building		1.5411	According to ISE Meeting Minutes (QIII) ISE Zonal Team, Zone # 12, (the Sewerage line in the Office premises spills out during the rainy season & the surface drainage system is also in poor condition as the rain water accumulates near the Outer Gate).
26	RCC Hall for Industrial		25.000	Carried forward from 2019-20
27	Regional Office Building Nizah		5.492	Carried forward from 2019-20
28	Construction of 1st Floor of (Meas. Trans) Building at R.R.		9.000	Carried forward from 2019-20
29	Analyzer Shelter Room		6.000	Carried forward from 2019-20
30	Construction of Double Story Housing at S-J4 Sandagan Beach Hut.		5.508	Carried forward from 2019-20
31	At-rod bend street (Admin Block)		8.000	Carried forward from 2019-20
Grand Total			96.893	
Less: Depreciation Rationalized			(53,000)	
Revised Total			40,893	

Oil Southern Gas Co. Ltd.
Details of Compressor Stations
For FY 2020 - 21

Table 1 (Contd.)

S/N	Description	Address Locality	Replacement Units	Total No. of Units	Projected Cost (Rs in millions)	Need Assessment	Cost Benefit Analysis	Features for variations
1	Overhaul of DR-550 Gas Turbine Engine S/N: 620-203-086				420.000	The Gas Turbine Engine S/N: 620-301-086 is used at Bikaner Compressor Station. It has worked 34404 hrs and our projected hours at the time of despatching this engine in 2020-21 are about 42000 hrs. The engine is to be overhauled at Original Equipment Manufacturer M/s OJSC Aerospace Sweden overhaul facility as per OEM recommended overhaul schedule.		
2	Refrurbishment of Solar Turbines T-60 Compressor Rotavibrators - RLVN				60.000	Solar Turbines T-60 Compressor station needs refurbishment due to wear and tear of RLVN and rotor impeller edges. This RLVN - Bundle shall be in place of Solvite or any installed RLVN Bundle.		
3	Repair of Fuel Control Valve AOV-11 original equipment manufacturer facility				10.000	Seven (7) new Fuel Control Valve AOV-11 installed at Press Road compressor. The cost of new fuel control valve is 0.2 mil. on. At present we have only 01 spare fuel control valve, therefore we intend to repair fuel control valve from OEM for future use.		
4	Air Dryer				1.500	Solar Compressor station air dryer is obsolete, spare parts are not available. Atlas Copco QPM has refused to provide spare parts. Air dryer is being utilized for dry seal gas system of solar compressor units T-60.		
5	Replacement of Solvite & Unia Valve				60.000	Solvite, HQ 1, Solvite and HQ 2 Orsator RLVN Units and station valves are old, leaky and spare parts are not available. It is very necessary to replace these leaky valves, getting very hard to get these valves. Few valves at multiple locations are continuously leaking since long.		
6	30 K Overhaul of Solar T-60 Gas Turbine Engine installed at RLVN HQ-1 Compressor Station				500.000	Six Turbine Engines are installed at RLVN HQ-2 Compressor Station. Solar T-60 has worked 12000 Hrs. and our projected Hrs at the time of despatching this engine in 2020-21 are about 18000 Hrs. The engine is to be overhauled at Original Equipment Manufacturer M/s Solar Turbines overhaul facility as per OEM recommended overhaul schedule.		
7	Refurbishment of Dry gas seal Compressors for Solar T-60 Gas compressor installed at RLVN HQ-1 Compressor Station - RLVN				15.000	After Refurbishment, overhaul of Solar T-60 gas compressor at HQ- 2, we have covered 14 No Dry Gas Seal Compressors which need refurbishment to use in the future in case of failure of any seal. In the first phase we will send 0 seal cartridges to OEM M/s John Stone for seal refurbishment.		
8	New Compressor at Shikharpur in Jacobabad for QPI.				5,000.000	The construction of micro-sized infrastructure would provide sustainable gas supply and availability of additional gas in main gas pipeline of system and surrounding region. The simulation results reveal that by implementing micro-sized gas (QPI) technology the QPI pipeline capacity would enhance from 140 to 121 BCM/yr.		
9	Compressor unit & extension of facility at Kawalishah (Total 30,000 HP) - Refurbish work building structure - RLVN				120.000	Required for further work - building structure		

Details of Compressor Stations
For FY 2020-21

Table# D-6.8

Table# P-6.8 For FY 2024 - 25									
Description		Replacement		Total No. of Units	Estimated Cost (Rs in million)	Need Assessment		Cost Benefit Analysis	Residue for Variations
TOTAL		1	-	1	2,962.500				

**Details of Computers & Allied Equipments including Furnitures and Equipments
Petition for Estimated Revenue Requirement for FY 2020 - 21**

NO.	DESCRIPTION	REVENUE PETITION F.Y 2020-21			Amount	Amount
		Add.	Rep.	QTY		
COMPUTERS & ALLIED EQUIP.:						
1	Personal / Desktop Computers	313	340	853	130.600	Requirement of various department to perform day to day operations as mostly of the applications are online. Messaging sharing is through email and computer is a mandatory requirement for that. Replacement is required for various departments / locations for obsolete systems in use for more than 8 years or are beyond economic repairs. Prices are based upon the quote received against current tender for computers and may vary due to the changes in duty structure. Additional computers are required for the new inductions. Out of 2019-20 budget qty. 100 order placed and qty. 187 are under F&R Approval and remaining qty. are tendering process and all will be actualised in end of 2019-20.
2	Printers(Laser Printer+Network Printer+Color Printers+high speed printers& Dotmatrix Printers	167	91	258	18.630	Requirement of P&C, Procurement, Billing, Meas. Dist., P&D and, Sales, CRD, RA, Medical Civil work, Finance CP-T&D, CP-Dist., Transmission, Legal Services. Laser Printer is the prime requirement to perform billing activities on time and therefore is the high priority procurement item to perform billing activities smoothly at entire franchise areas of billing Department. Priority need of Laser printer of different departments for printing of ISOs, Comparative statements, Tender Documents, Network Printers requirement for P&C, Billing Meas. Dist., Sales, Medical, Transmission Transmission, P&D, H.O Replacement of old and obsolete printers in use for more than 10 years or beyond economic repair. Dotmatrix Printers requirement for Medical replacement, Color Laser Printer, Billing, Seid-management, RA, Transmission, Land & Estate, SGM (J&S) and High speed color printers Required for board and various presentations printing from the centralised setup and for Class Therl section Out of 2019-20 budget qty. 15 order placed and remaining in tendering process and all procurement will be actualised in end of 2019-20.

Details of Computers & Allied Equipments including Furnitures and Equipments Petition for Estimated Revenue Requirement for FY 2020 - 21

NO.	DESCRIPTION	REVENUE PETITION F.Y 2020-21			Amount Rs Million	NEED ASSESSMENT "NOTE (ANNEXURE" (ERR 2020-21)
		Add.	Rep.	QTY		
3	Multi function Printers/Scanner/Laser Copier	8	3	14	1.050	These all in one multi function printer are required for users in smaller offices in order to have a clean desk environment and conserve low power instead of using separate units for Scanner/Printer and Copier. These are also required for users with the requirement of scanning in addition to the printing facility. All in Tendering Process and will be actualised in end of 2019-20.
4	Lap Top Computers / Tablets	15	8	23	4.200	Requirement for P&C, RA, RA, Medical, LNG, CP&TD, transmission Major Regional Offices and all HQs for presentations for conference rooms and some of the executive are required to urgently furnish different reports/data to the Management for taking appropriate and prompt decision. All in Tendering Process and will be actualised in end of 2019-20.
5	Rugged Laptop with built in Serial Port / Rugged Handheld Tablet Computer with built in GPS, Camera	2	18	20	16.000	Required for Measurement Dept by measurement transmission and distribution department for field use as conventional laptop is not suitable for outdoor environment. Replacement of old conventional laptops.
6	Scanners	87	9	76	15.950	Requirement of Meas Dist., P&C, CRD, RA, Medical, Finance, CP, T&D, Transmission. Required for compliance of Minimum performance and service standard prescribed by OGRA. Billing offices are required to make scan of different documents and reports on urgent and need basis and Heavy duty Scanners requirement of P&C, Procurement, Billing, RA, Legal Services, Land & Estate and Heavy duty scanning board secretariat and procurement. Out of 2019-20 out of qty 22 procurement in tendering process and qty 03 in ARA Process and all procurement will be actualised in end of 2019-20.
7	Hand Held Computers/ Devices	100	100	200	20.000	Required for Billing department.

Details of Computers & Allied Equipments including Furnitures and Equipments Petition for Estimated Revenue Requirement for FY 2020 - 21

NO.	DESCRIPTION	REVENUE PETITION F.Y 2020-21			Amount	Amount Rs Million
		Add.	Rep.	QTY		
8	CISCO Routers with E1 Cards & Cisco Branch Routers	8	20	28	25,450	NEED ASSESSMENT "NOTE / ANNEXURE" (ERR 2020-21) Replacement required for various locations for HQ, RO & IO for obsolete & EOL declared routers in use for more than 10 years and also declared EOS by principal. Prices are based upon the quote against current tender of routers and rate increase is because of raise of rupee to dollar party. (Cisco Branch Routers required for Karachi Zones for obsolete EOL declared routers. Prices are based upon the quote against current tender of routers and rate increase is because of raise of rupee to dollar party.) Replacement & additional for various departments / locations for obsolete switches in use for more than 10 years or are beyond economic repair and also declared EOS by principal. Additional required for newly installed. Requirement of new services and Infrastructure in primary data centre as well as Disaster Recovery site. Replacement for the services running on Desktop machines and multiple servers will be shifted on a single server with virtualization and servers are also required. Measurement existing servers as replacement. Out of 2019-20 budget qly 12 FAR Approved in last week and procurement in tendering process and will be actualised in end of 2019-20. Server for SMS Alerts and Services to replace the desktop machine. C/F 2019-20-Its needs for networking and other equipment for establishing Small Business Units. Replacement of obsolete Switches, Routers which are 5-8 years or more old and additional for add-on locations. Additional Racks and Power accessories, monitoring for Data Centre optimization. FAR Approved last week and procurement in process and will be actualised in end of 2019-20. C/F Replacement of existing Firewall already in use for the past 5 years. End Of Service is already declared by Cisco and no support will be provided onwards. FAR is in under process and procurement after approval and actualised in end of 2020.
9	Network Switches	10	18	28	2,800	
10	Servers - Rack mounted	9	7	18	24,000	
11	Server for Mobile application and SMS Alerts & Services - Value Added Services	2	-	2	3,600	
12	IT Infrastructure (servers, networking, switches, routers etc)	-	-	-	10,000	
13	Web Application Firewall / F5 120000 boxes in next availability	2	-	2	10,000	

**Details of Computers & Allied Equipments including Furnitures and Equipments
Petition for Estimated Revenue Requirement for FY 2020 - 21**

NO.		DESCRIPTION	REVENUE PETITION F.Y 2020-21			Amount Rs Million	NEED ASSESSMENT "NOTE / ANNEXURE" (ERR 2020-21)
			Add.	Rep.	QTY	Amount	
14		Auto Fire Extinguisher Ball, sticker, Rope for the safety of Communication/Power racks	-	1	1	1.000	Required to Auto Suppress initial Fire as the new solutions are very easy to install and mitigate any event without human intervention. Solutions included Suppressing in many forms like Slickers, Ropes, balls and powder. New technology and very fruitful for all attendant areas.
15		Fire rated Glass walls for Data Center & Fencing of Data Center above false Ceiling Area	-	1	1	2.500	Recommended for the protection of Data Center and cooling passages from the false ceiling area Recommended by Internal Audit
16		Precise Cooling For Head Office Data Center	-	3	3	9.000	Precise cooling is primary requirement for modern IT equipments and required for Audit Compliance.
TOTAL COMPUTERS & ALLIED EQUIPMENTS			703	620	1,323	301.780	
Less: enblock Disallowed by OGRA Computer H.W							
Total - as per DERR						301.780	
TOTAL FURNITURES/OFFICE EQUIPMENTS/ SECURITY						★ 188.887	
★ Including Office Equip. Rs 129.05 million, Furniture Rs 20.7 million, Security Rs 15.137 million. Less: enblock Disallowed by OGRA (Office Equip/Furn/Security)							
GRAND TOTAL COMPUTERS & ALLIED EQUIP. + FURNITURE/EQUIP. + SECURITY			703	620		490.667	
Lumpsum Reduced/Rationalized							(52.000)
Revised Total							438.667

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SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
For FY 2020-21

INDEX - SECTION - E

Details of Transmission and Distribution Cost	
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SUI SOUTHERN GAS COMPANY LIMITED
Transmission and Distribution Cost - Detailed

Annexed
Table V E-2

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					Rs. Million
S.No.	Description	Determination REQR FY 2019-20 (11-12-2019)	ENR Petition FY 2020-21	Variance of PPA 2020-21 over OGRS Dec 2019-20	Notes on Reason for change
1	Total Salaries, wages and benefits at Benchmark	16,520.00	17,544.00	1,024.00	
2	Gas Actually Consumed				F
	Compression	533.50	594.21		
	Delivery / Other use	88.03	66.04		
	Distribution	2.88	4.96		
	Other - LMF	0.04	0.27		
	Sub total:	423.95	665.48	141.08	2
3	Stores Spares and Supplies				
	Consumed				
	Transmission & Compression and Others		145.31		
	Distribution		662.92		
	Head Office		132.28		
	Freight & handling		21.19		
	Sub total:	398.00	1,361.60	563.00	3
4	Material & Labour used in consumer's installation	38.80	38.00	-	
5	Electricity	230.50	252.00	122.00	4
6	Rent, Rates, and Taxes				
	Rent	161.00	171.00	7.00	
	Royalty	9.00	2.50	(6.50)	
	Others	117.00	115.50	(1.50)	
	Sub total:	317.00	290.50	(26.50)	
7	Traveling				
	Local traveling				
	Executives	30.50	25.50	(4.50)	
	Subordinates	5.00	4.67	(0.17)	
	Foreign traveling	-	0.61	0.61	
	Other traveling	96.00	89.13	(6.87)	
	Sub total:	131.50	120.00	(11.50)	
8	Difference				
	Third party	0.12	0.57	0.10	
	Fire and Damage to property	39.00	64.94	25.94	
	Other insurance	75.80	81.63	5.83	
	Sub total:	114.92	151.137	16.82	5
9	Postage & Mail Delivery by Contractor	151.60	138.91	(12.69)	
10	Repair and Maintenance				6
	Transmission		309.17		
	Distribution		1,552.43		
	Compression		1.95		
	Other		565.81		
	Sub total:	1,653.00	2,429.46	1,095.46	7

SHI SOUTHERN GAS COMPANY LIMITED
Transmission and Distribution Cost - Detailed

Table B.1

Rs. Million

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S.No.	Description	Determination REHR FY 2019-20 (11-12-2019)	REHR Petition FY 2020-21	Variance of Pet 2020-21 over OGRS Dec 2019-20	Notes on Reason for change
11	Legal and Professional charges				
	Legal	100.00	83.20	(17.60)	
	Professional	40.00	12.00	28.00	8
	Meter Reading by Inspectors	25.00	10.00	15.00	9
	Collection Agency Commission	3.00	3.00	-	
	Sub total	168.00	108.20	60.00	
12	Security Expenses				
	Transmission		466.82		
	Distribution		242.68		
	Head Office and others		36.37		
	Sub total	732.00	745.87	14.00	10
13	OGRS Fee	130.14	281.53	87.45	
14	Advertisement	112.00	120.00	8.00	11
15	Gas Bills Collection Charges	297.80	236.94	44.90	
16	Gas Bills delay processing Charges	76.00	22.47	53.53	12
17	Other				
	Contingencies		31.00		
	Subsidies		18.00		
	Other miscellaneous		11.10		
	Sub total	148.14	157.48	9.26	
	Gross T&D Cost	20,907.47	24,381.43	3,473.96	
18	Relevant Expenditure relating to ERM expenses	2,527.50	3,829.80	501.60	
	Gross T&D Cost	23,434.97	27,990.43	4,555.00	
19	Loss : Recoveries (Allowances)				
	Amount allocated to GDS (N)	1,831.20	2,281.40	249.20	
	Others	2.24	1.60	0.64	
	Installation Cost Recovered	19.05	19.00	0.05	
	Cost allocated to Meter Plant	63.15	5.00	58.15	
	Recoveries from the Fund of Non-tax Profit from the SNGPL	195.45	130.00	65.45	
	Allocation to (net)	-	35.13	15.10	
	Sub total	2,101.05	2,292.13	191.08	
	Net T&D Cost	21,333.92	25,698.30	4,364.38	

NOTES ON REASONS FOR VARIATIONS FROM OGRA DETERMINATION ON RERR FOR FY 2019-20 DATED 11.12.1

		Rs. Million
1	HR Cost: Please see details in basis & assumptions.	
2	Gas Internally Consumed: Increased is mainly due to decrease in volumes & increase in rates rates.	
	-Volume variance	163.5
	-Rate variance	-22.5
	Total	141.0
3	Stores, Spares & Supplies Consumed: The Authority deducted an amount of Rs. 499 million or 18% from the estimates (ERR FY 2019-20) of the company, in addition to it the major increase is attributed on account of extensive UFG control activities as well as due to expected increase in consumption & prices of chemical products/fuel and lubricants besides general inflation	
4	Electricity: The enhanced amount is required to meet the expected increase in electricity tariff.	
5	Insurance: The increase is on account of expected increase in assets base.	
6	Postage and Bill delivery by contractors: Increase is due to expected enhanced activity and rates by courier services. The increase is due to expected increase in customers and rate revision.	
7	Repair & Maintenance: In ERR FY 2019-20, Authority disallowed Rs. 1,090 million or 39% out of the requested amount of Rs. 2,683 million, however owing to the extensive UFG control programme/strategy for FY 2020-21 an amount of Rs. 2,728 has been estimated.	
8	Legal & Professional Charges: The Authority deducted an amount of Rs. 50 million i.e. 53% from legal & professional charges from the estimates (ERR FY 2019-20) of the company. Additionally the main reason for increase under this head is mainly due to HR Consultancy charges for Manpower and Potential Assessments.	
9	Meter Reading by contractors: Existing Contract will be expired in June 2020. New tender is expected to be at a higher rate. Also 125,000 plus new connection are projected for FY 2020-21 in the budget. consequently Company customer base will expand	
10	Security Expenses: Increase due to revised agreements with security agencies to cope up with security needs at important locations/ CUs installations.	
11	Advertisement: The company in its petition for FY 2019-20 projected an amount of Rs. 169 million, OGRA allowed Rs. 112 million and deducted 57 million, however for FY 2020-21 the company has estimated a lower amount of Rs. 120 million. However, the expenses are required for Media campaign for combating Theft UFG, Leakages & UFG campaign, Gas defaulters & recovery campaign, Natural gas conservation campaign, customer awareness campaign and other Operational and Corporate image building advertisements.	
12	Gas Bills Collection & Stub Processing Charges: Gas bill collection charges are expected to increase due to enhanced rates from Rs. 8/bill (rates effective since 2006) to Rs. 9/bill.	

SUI SOUTHERN GAS COMPANY LIMITED
GIC : COMPRESSOR STATIONS

Amended
Table # E-2

Particulars	Determination RERR FY 2019-20 dt: 11-12-2019	PETITION ERR FY 2020-21
Compressor Station A (Location) SKP		
Compressor Running hours		
Volume of gas handled /compressed (MMCF)		8,760.0
Volume of gas handled /compressed (MMBTU)		33,288.0
GIC (MMCF)		31,890.0
GIC (BRTU)		348.0
GIC (Rs. in million)		333.4
		180.3
Compressor Station C (Location) HQ- 3		
Compressor Running hours		
Volume of gas handled /compressed (MMCF)		15,432.0
Volume of gas handled /compressed (MMBTU)		62,344.0
GIC (MMCF)		61,010.0
GIC (BRTU)		504.0
GIC (Rs. in million)		493.9
		267.3
Compressor Station D (Location) SIBI		
Compressor Running hours		
Volume of gas handled /compressed (MMCF)		4,320.0
Volume of gas handled /compressed (BRTU)		49,275.0
GIC (MMCF)		47,304.0
GIC (BRTU)		90.0
GIC (Rs. in million)		86.1
		46.7
Total Compressors (All Locations)		
Compressor Running hours		
Volume of gas handled /compressed (MMCF)		28,512.0
Volume of gas handled /compressed (BRTU)		144,907.0
GIC (MMCF)		140,204.0
GIC (BRTU)	553.7	942.000
GIC (Rs. in million)	551.9	913.714
	332.689	494.210

Table # E-2

SUI SOUTHERN GAS COMPANY LIMITED
GIC: METERED / UNMETERED

Adjusted
Table # E.1

Particulars	FY 2019-20			FY 2020-21		
	DETERMINATION RRR			PETITION		
	MMCF	MMBTU	Rs Million	MMCF	MMBTU	Rs Million
Compressed Metered Unmetered	553.7	551.9	332.7	942.0	943.7	494.2
Sub total	553.7	551.9	332.7	942.0	943.7	494.2
Company own use Metered Unmetered	151.0	146.0	85.0	126.0	122.1	66.0
Sub total	151.0	146.0	85.0	126.0	122.1	66.0
Loss Internally used Metered Unmetered	0.1	0.1	0.06	0.5	0.5	0.3
Sub total	0.1	0.1	0.06	0.5	0.5	0.3
Gas Purged Metered Unmetered	0.0	0.0	0.0	0.0	0.0	0.0
Sub total	0.0	0.0	0.0	0.0	0.0	0.0
Domestic/other use Sub total: Transmission	34.6 729.4	24.2 722.2	14.6 435.3	20.0 1093.5	20.0 1061.3	10.8 574.0
Loss Due To Substage Transmission Distribution Total						
Distribution Metered Unmetered	4.3	4.2	0.0	7.9	8.3	4.5
Sub total	4.3	4.2	0.0	7.9	8.3	4.5
Third Party Damages Unmetered	365.5	362.8	218.7	364.5	361.8	195.7
Sub total Distribution	365.5	362.8	218.7	372.4	370.0	200.1
GAS CONSUMED INTERNALLY TOTAL	1099.2	1089.2	656.6	1405.0	1431.3	774.2
Metered Unmetered	708.8	703.2	423.9	1070.4	1144.566	565.0
GRAND TOTAL	708.8	703.2	423.9	389.5	366.8	219.3

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**SUI SOUTHERN GAS COMPANY LIMITED
STORES AND SPARES CONSUMED**

**Amended
Table # E-4**

Particulars	FY 2019-20	FY 2020-21	Variation between FY 2020-21 and 2019-20	
			Rs. Million	%age
	Determination RERR	Petition		
Transmission	273,283	343,310	70.03	26
Distribution	832,234	862,920	30.69	4
Head Office	132,002	133,278	1.28	1
Sub total	1237,518	1339,508	101.99	8
Freight & Handling	14,482	21,492	7.01	48
Grand total	1252,000	1361,000	109.00	9
Less en-block reduction by OCRA	454,000			
Allowed	798,000			

SUI SOUTHERN GAS COMPANY LIMITED

Electricity

Amended

Table # E-5

Particulars	FY 2019-20	FY 2020-21	Rs. Million	
	Determination REIR	Petition	Variation between FY 2020-21 & 2019-20	%age
Transmission & Compression Distribution	34.835	53.313	18.478	53
1 Karachi Region	83.088	127.161	44.073	53
2 Sindh Interior Region	42.558	65.132	22.574	53
3 Balochistan Region	8.309	12.716	4.407	53
Sub total	133.955	205.009	71.05	53
Head Office	61.210	93.678	32.468	53
Grand total	230.000	382.000	122.000	53

SUI SOUTHERN GAS COMPANY LIMITED **TRAVELLING EXPENSES**

Amended
Table # E-6

Rs. Million

Particulars	FY 2019-20		FY 2020-21		Variation between FY 2020-21 & 2019-20	
	Determination RERR		Petition		Rs. Million	%age
Transmission	29,978		27,461		(2,52)	(8)
Distribution	20,637		18,904		(1,73)	(8)
Head Office	80,386		73,636		(6,75)	(8)
Total	131,000		120,000		(11,00)	(8)

**SUI SOUTHERN GAS COMPANY LIMITED
INSURANCE**

Amended

Table # E-7

Rs. Million

Particulars	FY2019-20	FY2020-21	Variation between FY 2020-21 & 2019-20	
	Determination RERR	Petition	Rs. Million	%age
Third Party insurance	0.520		(0.520)	(100)
Fire risk/Damage to property	58.000	64.936	6.936	12
Motor Vechical Insurance	35.015	44.019	9.004	26
Other Insurance including Consequential loss	40.784	42.182	1.398	3
Total	134,319	151,137	16,819	13

**SUI SOUTHERN GAS COMPANY LIMITED
PROFESSIONAL CHARGES**

Amended

Table # E-8

Rs. Million

Particulars	FY 2019-20	FY 2020-21	Variation between FY 2020-21 & 2019-20	
			Rs. Million	%age
	Determination RERR	Petition		
Professional charges				
	99,000	117,000	18,000	18
Total	99,000	117,000	18,000	
En-block reduction by OGRA	53,000			
	46,000			

SUI SOUTHERN GAS COMPANY LIMITED
SECURITY EXPENSE

Amended
Table # E-9
Rs. Million

Particulars	FY 2019-20	FY 2020-21	Variation between FY 2020-21 & 2019-20	
	Determination RERR	Petition	Rs. Million	%age
Transmission	572.465	466.850	(105.62)	(18)
Distribution	302.246	242.677	(59.57)	(20)
Head Office & Others	68.289	36.473	(31.82)	(47)
Total	943.000	746.000	(197.00)	(21)
Less cu-block reduction by OGRA	221.000			
Allowed	722.000			

**SUI SOUTHERN GAS COMPANY LIMITED
ADVERTISEMENTS**

Amended

Table # E-10
Rs. Million

Particulars	FY 2019-20	FY 2020-21	Variation between FY 2020-21 & 2019-20	
	Determination RER	Petition	Rs. Million	%age
1 Compulsory Advertisement	100.251	110.000	9.75	10
2 Voluntary Advertisement	11.749	10.000	(1.75)	-15
Total	112.000	120.000	8.00	7