

SUI SOUTHERN GAS COMPANY LIMITED
GIC : COMPRESSOR STATIONS

Part-II

Table # E-2

Particulars	OGRA DETERMINATION ERR FY 2018-19 (21-06-2018)	REVIEW PETITION FY 2018-19	PETITION ERR FY 2019-20
Compressor Station A (Location) SKP			
Compressor Running hours		8,760.0	21,936.0
Volume of gas handled /compressed (MMCF)		37,200.0	49,275.0
Volume of gas handled /compressed (MMBTU)		35,712.0	47,304.0
GIC (MMCF)	371.4	371.4	440.0
GIC (BBTU)	355.4	355.4	422.4
GIC (Rs. in million)	168.5	197.5	236.6
Compressor Station C (Location) HQ- 3			
Compressor Running hours			17,568.0
Volume of gas handled /compressed (MMCF)			87,600.0
Volume of gas handled /compressed (MMBTU)			85,848.0
GIC (MMCF)			585.6
GIC (BBTU)			603.2
GIC (Rs. in million)			337.9
Compressor Station D (Location) SIBI			
Compressor Running hours	-		4,368.0
Volume of gas handled /compressed (MMCF)	-		49,275.0
Volume of gas handled /compressed (BBTU)	-		47,304.0
GIC (MMCF)	-		91.0
GIC (BBTU)	-		87.4
GIC (Rs. in million)	-		48.9
Total Compressors (All Locations)			
Compressor Running hours	-	8,760.0	43,872.0
Volume of gas handled /compressed (MMCF)	-	37,200.0	186,150.0
Volume of gas handled /compressed (BBTU)	-	35,712.0	180,456.0
GIC (MMCF)	371.4	371.4	1,116.600
GIC (BBTU)	355.4	355.4	1,112.928
GIC (Rs. in million)	168.5	197.538	623.440

Table # E-2

SUI SOUTHERN GAS COMPANY LIMITED
GIC: METERED / UNMETERED

Table # E-3

Particulars	FY 2018-19				FY 2018-19				FY 2019-20			
	PETITION FOR DERR				Review Petition				PETITION			
	MMCF	MMMBTU	Rs. Million		MMCF	MMMBTU	Rs. Million		MMCF	MMMBTU	Rs. Million	
Compression												
Metered	371.4	355.4	168.5		371.4	355.4	197.5		1116.6	1112.9	623.4	
Unmetered												
Sub total	371.4	355.4	168.5		371.4	355.4	197.5		1116.6	1112.9	623.4	
Company own use												
Metered	122.5	119.2	56.5		122.5	119.2	66.2		207.3	200.7	112.4	
Unmetered												
Sub total:	122.5	119.2	56.5		122.5	119.2	66.2		207.3	200.7	112.4	
LHF - Internally used												
Metered	0.5	0.5	0.2		0.5	0.5	0.3		0.1	0.1	0.1	
Unmetered												
Sub total:	0.5	0.5	0.2		0.5	0.5	0.3		0.1	0.1	0.1	
Gas Purged												
Metered	0.0	0.0	0.0		0.0	0.0	0.0					
Unmetered	22.1	22.1	10.5		22.1	22.1	12.3		25.0	24.4	13.7	
Sub total:	22.1	22.1	10.5		22.1	22.1	12.3		25.0	24.4	13.7	
Sub total: Transmission	516.5	497.2	235.7		516.5	497.2	276.3		1349.0	1338.1	749.6	
Loss Due To Sabotage												
Transmission												
Distribution												
Total												
Distribution												
Metered	0.0	0.0										
Unmetered	7.9	7.9	3.7		7.9	7.9	4.4		7.9	7.9	4.4	
Sub total:	7.9	7.9	3.7		7.9	7.9	4.4		7.9	7.9	4.4	
Third Party Damages												
(Unmetered)	364.5	361.8	171.5		364.5	361.8	201.1		365.5	362.7	203.2	
Sub total Distribution	372.4	369.7	175.2		372.4	369.7	205.5		373.4	370.6	207.6	
GAS CONSUMED												
INTERNALLY TOTAL												
Metered	888.9	866.9	410.9		888.9	866.8	481.8		1722.4	1708.7	957.2	
Unmetered	494.4	475.1	225.2		494.4	475.1	264.1		1331.9	1321.6	740.3	
Sub total	394.5	391.8	185.7		394.5	391.8	217.7		390.5	387.1	216.9	
GRAND TOTAL	888.9	866.9	410.9		888.9	866.9	410.9					

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

Table # E-4

Particulars	Rs. Million				
	FY 2018-19	FY 2018-19	FY 2019-20	Variation between FY 2019-20 and 2018-19	
	OGRA Determination ERR	Review Petition	Petition		
Transmission	241.921	241.920	283.105	Rs. Million	%age
Distribution	655.711	655.710	862.146	41.19	17
Head Office	119.124	119.122	136.746	206.44	31
Sub total	1016.756	1016.752	1281.997	17.62	15
Freight & Handling	9.245	9.244		265.25	26
Grand total	1026.001	1025.996	15.002	5.76	62
Less en-block reduction by OGRA	301.000		1296.999	271.00	26
Allowed	725.001				

SUI SOUTHERN GAS COMPANY LIMITED
Electricity

Table # E-5

Particulars	Rs. Million			
	FY 2018-19 OGRA Determination ERR	FY 2018-19 Review Petition	FY 2019-20	
			Petition	Variation between FY 2019-20 & 2018-19
				Rs. Million
Transmission & Compression				%age
Distribution				
1 Karachi Region	33.775	33.775	34.835	1.060
2 Sindh Interior Region	80.559	80.559	83.088	2.529
3 Balochistan Region	41.263	41.263	42.558	1.295
	8.056	8.056	8.309	0.253
Sub total	129.878	129.878	133.955	4.08
Head Office	59.347	59.347	61.210	1.863
Grand total	223.000	223.000	230.000	7.000
				3

SUI SOUTHERN GAS COMPANY LIMITED
TRAVELLING EXPENSES

Table # E-6

Rs. Million

Particulars	FY 2018-19		FY 2019-20		Variation between FY 2019-20 & 2018-19	
	OGRA Determination ERR	Review Petition	Petition		Rs. Million	%age
Transmission	36.447	29.978	41.129		11.15	37
Distribution	25.090	20.636	28.313		7.68	37
Head Office	97.734	80.386	110.288		29.90	37
Total	159.271	131.000	179.730		48.730	37
Less en-block reduction by OGRA Allowed	28.000					
	131.271					

SUI SOUTHERN GAS COMPANY LIMITED INSURANCE

Table # E-7

Particulars	FY2018-19	FY2018-19	FY2019-20	Rs. Million	
	OGRA Determination ERR	Review Petition	Petition	Rs.Million	%age
Third Party insurance	1.567	1.215	0.520	(0.695)	(57)
Fire risk/Damage to property	96.057	67.492	57.450	(10.042)	(15)
Motor Vechical Insurance	71.465	49.981	65.366	15.385	31
Other Insurance including Consequential loss	46.911	26.812	10.404	(16.408)	(61)
Total	216.000	145.500	133.740	(11.760)	(8)
Less en-block reduction by OGRA	70.000				
Allowed	146.000				

SUI SOUTHERN GAS COMPANY LIMITED
PROFESSIONAL CHARGES

Table # E-8

Particulars	Rs. Million			
	FY 2018-19	FY 2018-19	FY 2019-20	Variation between FY 2019-20 & 2018-19
	OGRA Determination ERR	Review Petition	Petition	Rs. Million %age
Professional charges	46.000	46.000	98.625	52.625 114
Total	46.000	46.000	98.625	52.625

SUI SOUTHERN GAS COMPANY LIMITED
SECURITY EXPENSE

Table # E-9

Particulars	FY 2018-19		FY 2018-19	FY 2019-20	Variation between FY 2019-20 & 2018-19	
	OGRA Determination ERR		Review Petition	Petition	Rs. Million	%age
Transmission	473.230		473.230	469.263	(3.97)	(1)
Distribution	150.190		150.190	247.758	97.57	65
Head Office & Others	32.590		32.590	55.978	23.39	72
Total	656.010		656.010	772.999	116.989	18

**SUI SOUTHERN GAS COMPANY LIMITED
ADVERTISEMENT**

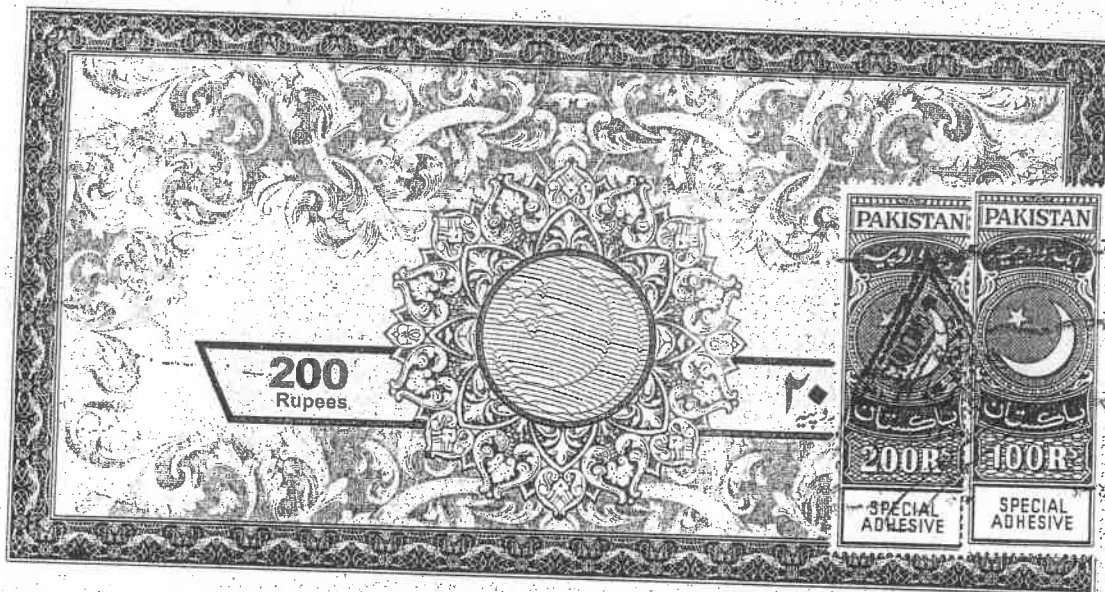
Table # E-10

Particulars	FY 2018-19 OGRA Determination ERR	FY 2018-19 Review Petition	FY 2019-20 Petition	Rs. Million	
				Variation between FY 2019-20 & 2018-19	
				Rs. Million	%age
1 Compulsory Advertisement	96.420	96.671	151.272	54.60	56
2 Voluntary Advertisement	11.300	11.329	17.728	6.40	56
3 Environmental Advertisement	-	-	-	-	-
Total	107.720	108.000	169.000	61.00	56

**SUI SOUTHERN GAS COMPANY LIMITED
COMMUNICATIONS**

Table # E-11

Particulars	FY 2018-19	FY 2018-19	FY 2019-20	Rs. Million	
				Variation between FY 2019-20 & 2018-19	
	OGRA Determination ERR	Review Petition	Petition	Rs. Million	%age
Transmission & Compression	48.051	4.733	45.182	40.449	855
Distribution					
1 Karachi Region	1.235	0.122	1.161	1.040	855
2 Sindh Interior Region	5.549	0.547	5.218	4.671	855
3 Balochistan Region	2.093	0.206	1.968	1.762	855
Sub Total Distribution	8.877	0.874	8.347	7.473	855
Sub total	56.928	5.608	53.529	47.921	855
Headoffice	10.072	0.992	9.471	8.479	855
Grand total	67.000	6.600	63.000	56.400	855
Less en-block reduction by OGRA	60.400				
Allowed	6.600				



KAMRAN NEHAL STAMP VENDOR
 Licence No. 152, Shop No. 1, Glamour Arcade
 Sector 11-I, North Karachi

OFFICE SUPERINTENDENT
 Stamp Office, City Centre
 Karachi

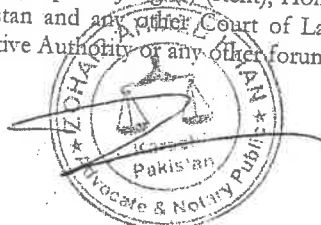
SNR 25222 11.2 JAN 2018
 Name To With Address
 Through With Address
 Purpose **ABU TALIB MOOSA**
 Value Rs. **Advocate Uc 617**
 Stamp Vendor's Signature
 Declaration Free Will & Divorce Decd
 Not Responsible Any Fake Documentation

10 JAN 2018

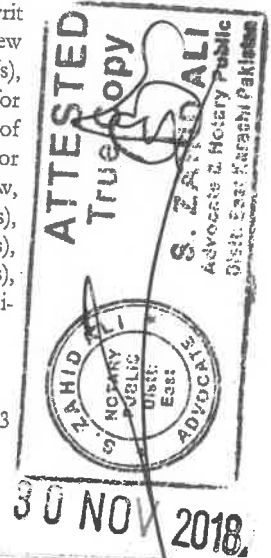
SUB - POWER OF ATTORNEY

Know all men by these present that SUI SOUTHERN GAS COMPANY LIMITED, a Public Limited Company, incorporated under the Companies Ordinance, 1984, and having its registered office at ST.4/B, Block-14, Sir Shah Muhammad Suleman Road, Gulshan-e-Iqbal, Karachi, through its authorized representative, the Acting Managing Director Mr. Muhammad Amin Rajput authorized vide General Power Attorney Registered No. 34, Book No. IV, dated 18.01.2018 with Sub-Registrar III, Gulshan-e-Iqbal Town Karachi and Digital scanning unit Karachi, BOR Sindh RD34/SRO:43/Doc Type:42 dated February 08, 2018, do hereby nominate, constitute, appoint and ordain Mr. Shoaib Ahmed S/o Mr. Muhammad Ahmed, holding CNIC No.42101-2726152-5, General Manager (Regulatory Affairs) of the Company (hereinafter called "the Sub-Attorney") with effect from February 13, 2018 to be the true and lawful Sub-Attorney of the Company, who is duly authorized only jointly with either of the sub-attorneys to do, on behalf of the Company, the following:

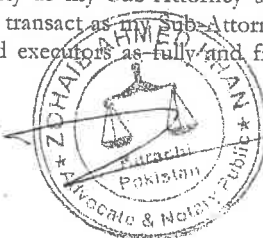
- 1 To commence, initiate, prosecute, carry on; continue, abandon, withdraw, compromise or defend all actions, suits and/or any other legal proceedings, whether Civil, Criminal, Revenue/Rent or otherwise, at/before any Court of Law/any Judicial/Quasi-Judicial/Judicial-cum-Administrative Authority or any other forum whatsoever, including proceedings to procure or establish the Bankruptcy or Insolvency of any person or firm or liquidation or winding up of any company, to compromise or refer to arbitration any claims or disputes either in such suits or proceedings or otherwise and to sign, execute, verify and file plaint(s), execution application(s)/petition(s), writ petition(s), contempt petition(s), objection petition(s), revision petition(s), review petition(s), various miscellaneous application(s), ejectment application(s)/petition(s), criminal complaint(s) and memorandum/memoranda of appeal(s) etc., application(s) for withdrawal of any piece of pleadings, legal proceedings, letter(s)/decd(s) of compromise/settlement or any other such document(s) for their filing in/before and/or to make any statement with regard to the foregoing in/before different Courts of Law, such as, Company court(s), Court(s) of the Learned Civil Judge(s), Judicial Magistrate(s), Justice(s) of the Peace, District & Session(s)/Additional District & Sessions Judge(s), Rent Controller(s)/Rent Tribunal(s)/Special Judge(s) (Rent), Honourable High Court(s), August Supreme Court of Pakistan and any other Court of Law/any Judicial/Quasi-Judicial/Judicial-cum-Administrative Authority or any other forum whatsoever.



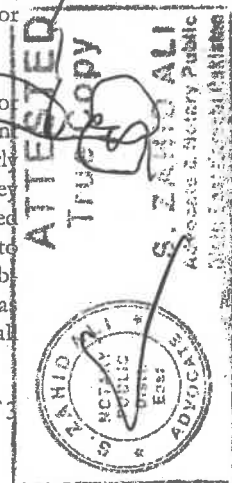
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- 2 To appoint solicitor(s), advocate(s), pleader(s), wakil(s) and/or other legal agent(s)/representatives to make sign, execute and/or verify plaint(s), petition(s), written statement(s), memorandum/memoranda of appeal(s), ejectment application(s)/petition(s), rent application(s)/petition(s)/plaint(s), execution application(s)/petition(s), parawise comments, report(s) and/or any other pleadings (in any form whatsoever), tabular statement(s), Vakalatnama(s) / Sub-Power(s)-of-Attorney / Letter(s) of authorization/representation, warrant(s) of authority and/or any other papers, writings or documents expedient or necessary in the opinion of the Sub-Attorney to be made, signed, executed, verified and/or to swear affidavit(s) presented/to be presented or filed/to be filed before Civil, Revenue, Labour Court(s)/Tribunal (s), Rent Controller(s)/Special Judge(s) (Rent), Sub-Ordinate Court(s), Companying Court(s), High Court(s) and/or the Supreme Court of Pakistan or any other Court of Law/any Judicial/Quasi-Judicial/Judicial-cum-Administrative Authority or any other forum whatsoever and also to sign, verify, lodge/file/submit and/or witness the First Information Report(s) to initiate appropriate legal proceedings against the accused.
 - 3 To sign and execute arrangements and contracts relating to acquisition, purchase, sale or disposal of property, concessions or rights or for the establishment, construction, maintenance, improvement, management, working, control and superintendence of all roads, Railways, Harbours, Docks, Wharves, Aerodromes, Pipelines, Pumping Stations, Distribution Installations, Water Works, Reservoirs, Steam or Hydraulic Works and installations, Gas or Electric Light or power generating works and installations, wireless and tank installations and other works and conveniences or otherwise relating to Company business and affairs and to alter, vary, modify, abrogate or cancel any such arrangements and contracts and to do everything which the said Sub-Attorney may think necessary or expedient on our behalf for the purpose of carrying out and giving effect to any such arrangement and contract either as originally entered into or as so altered, varied or modified, subject to fulfillment of all mandatory requirements by the respective User Department and Procurement Department
 - 4 To file reply/replies, petition(s) for leave to appear and defend, rejoinder(s), written statement(s), parawise comments, report(s), and/or any other pleadings (in any form whatsoever), affidavit(s)-in-evidence, affidavit(s) in ex-parte proof(s), counter affidavit(s), affidavit(s)-in-rejoinder(s), objections, Statements or all sorts of other Affidavits, Objections and any Pleading(s) on behalf of the Company and to give Statement(s) in Court(s) on oath and present himself for Cross-Examination(s) on behalf of the Company before any Court(s), Tribunal(s), Authority (ies) in any matter whether civil, criminal, rent or otherwise.
 - 5 To do generally all acts and things, which are necessary or requisite or expedient to carry out the several acts, deeds and things aforesaid or incidental thereto, as provided and mandated through this Sub-Power of attorney.
 - 6 AND I declare that my Sub-Attorney shall be entitled to continue to act under this Sub-Power of Attorney and to exercise all the powers hereby conferred until this Sub-Power of Attorney is recalled by us by written notice sent by us and received by my Sub-Attorney and that although I may from time to time myself do or attend to or authorize others to do or attend to certain or all of the acts and matters in regard to which my Sub-Attorney is hereby authorized to act for us and on my behalf, no implication of total or partial revocation of the powers conferred on my Sub-Attorney shall there by arise.
 - 7 AND I declare that, as in questions with third parties, and not recalled, either wholly or as regards the Sub-Attorney then proceeding to act hereunder, shall be sufficient evidence thereof, and with reference to all the powers generally and particularly hereinbefore conferred, I provide that the same may be exercised by my Sub-Attorney alone and with reference to my affairs and my property alone or they may be exercised by my Sub-Attorney in conjunction with any person or persons and with reference to any other estate and property as my Sub-Attorney shall think fit, and that my Sub-Attorney shall be entitled to transact as my Sub-Attorney on my behalf with himself as an individual or trustees and executors as fully and freely and to the like effect in all



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respects as if my Sub-Attorney were dealing with third parties not in any way identified or connected or associated with my Sub-Attorney.

AND the Company doth hereby agree to ratify and confirm all and whatsoever the said Sub-Attorney shall lawfully do or cause to be done by virtue of this Sub-Power-of-Attorney. It is also being declared that all acts, deeds and transactions of the Sub-Attorney shall, notwithstanding any prior revocation or cancellation of this Power-of-Attorney be valid and effectual, unless such revocation shall have been previously notified to the person or persons acting or dealing with the Attorney And I consent to and expressly authorize the registration hereof before the concerned Registrar of assurances.

IN WITNESS WHEREOF the Executant of this Sub-Power-of-Attorney have set his hands unto this document in the presence of following witnesses on this _____ day of _____ and the common seal of Sui Southern Gas Company Limited is hereunto duly affixed.



[Signature]
(EXECUTANT)

Muhammad Amin Rajput
Acting Managing Director
Sui Southern Gas Company Ltd.

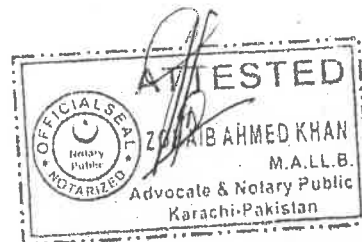
WITNESSES:

1. *[Signature]*
Tahir A Khan

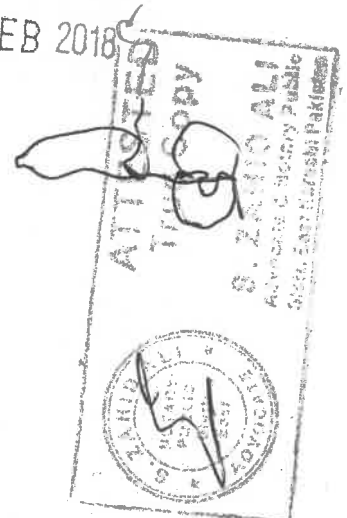
CNIC No. 41304-5217521-7

2. *[Signature]* ASIF FATAH SHAICH

CNIC No. 42201-3782980-1



28 FEB 2018



30 NOV 2018



**Sui Southern Gas
Company Limited**

Ref : RA 21/20
Dated : 04 Dec. 2018

The Registrar
Oil & Gas Regulatory Authority
Plot # 54, ZTE Plaza, Fazal-e-Haq Road
Near PIA Booking Office, Blue Area
Islamabad.

Subject: PETITION FOR ESTIMATED REVENUE REQUIREMENT FOR FY 2019-20.

Ref: SSGC Letter # RA/21/20 dated 30 November 2018.

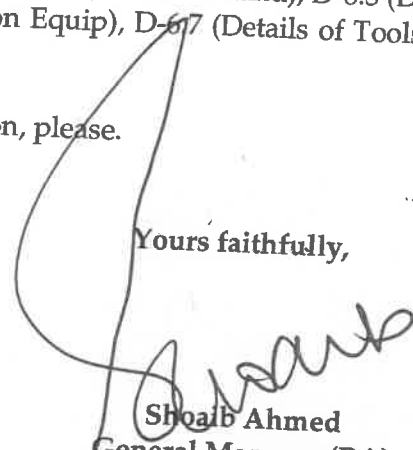
Dear Sir,

This is in continuation to our letter # RA/21/20 dated 30 Nov. 2018 through which SSGC filed petition for Estimated Revenue Requirement for FY 2019-20.

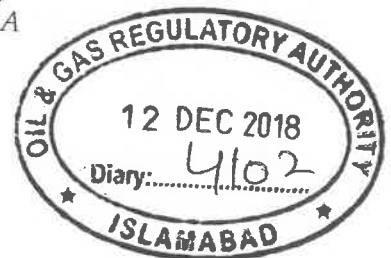
Please find attached remaining schedules of Assets viz-a-viz Table # D-6.1 (Details of Plant & Machinery), D-6.3 (Details of Vehicles), D-6.4 (Details of Land), D-6.5 (Details of Buildings), D-6.6 (Details of Telecommunication Equip), D-6.7 (Details of Tools) of the subject petition.

This is for your information and necessary action, please.

Yours faithfully,


Shoaib Ahmed
General Manager (RA)
(For Managing Director)

C.C: Mr. Shahzad Iqbal, Executive Director (Gas)-OGRA
Mr. Muhammad Asif, Deputy Executive Director (Gas)-OGRA



Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2019 - 20

Table# D-6.1

S/N		Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
				Qty				Ref. Year	FY 2019-20	
Rs in million										
1		Centrifugal Pump with Motor - Daur	1.000	-	4	4	TRANSMISSION- HQ-2	NA	0.250	Pump required to drain out sewerage water from HQ area. 04 Nos pump at Compressor station pumps have become very old and beyond repair
2		Electric Motor with skid mounted Water Pump 15HP with 4"x3". HQ3 15 HP with 4"x3"	0.800	-	2	2	TRANSMISSION- HQ-3	NA	0.400	Replacement: Required new electric pumps against the old electric water pumps which are very old not reliable.
3		Air Compressor 125PSIG - HQ3 125 PSIG with water cooled Engine on wheel skid mounted	5.000	-	1	1	TRANSMISSION- HQ-3	NA	5.000	Replacement: Required against existing KOMATSU Air Compressor which is very old, it's spares are not available in local market and it is beyond economical repair.
4		Electric Transformer - HQ3 200 KVA with allied accessories	1.500	-	1	1	TRANSMISSION- HQ-3	NA	1.500	Replacement: Required against existing Transformer which is of 100KVA. It is very old and not feasible for existing high load.
5		Water Filtration Plant-HQ Dadu	1.500	1	-	1	TRANSMISSION- HQ-DADU	NA	1.500	Additional: Required to provide sweet water for Executives and staff colonies due to hard water of Hand pump.
6		Complete solar CP system As per specifications	10.000	1	4	5	CP	NA	2.000	Additional is req'd at MP-155 on ILBP Replacement is req'd for exhausted TEGs at MP-225 (ILBP) & KMP-26 & 72 (BGFTP) and old TR at MP-248 on ILBP
7		Solar Module 150 Watt - various locations	1.700	100	-	100	CP	NA	0.017	Additional are req'd for upgrading of existing solar system installed at various locations to meet increasing current requirement
8		R.O. Plant 20,000 Gallon	2.500	1	-	1	TRANSMISSION- CIVIL MAINTENANCE- KT	NA	2.500	Main supply of water at KT is harmful for human health and also not suitable for equipments, R.O plant can overcome this problem

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Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2019 - 20

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
							Ref. Year	FY 2019-20	
Rs in million									
9	Diesel Engine Driven DC Generator (Welding PLant) - ERC Type: DC Generating Set Rating: Electric Arc Welding machine, 400-450 Amps at 36 Volts & 80 % Duty Cycle. Current Range: 40-450 Amps with reduced power loss under loaded condition. Controls: Dual Continuously Ampere & variable Voltage Controls. Diesel Engine: Cylinder 3-4, water cooled. Power 35-45 hp, Speed 1500~1850rpm with Safety Shut Down Devices.	6.400	-	2	2	TRANSMISSION- EMERGENCY RESPONSE CENTRES (ERC)	NA	3.200	The existing welding plants are 25 years old and having problems of current regulation which cause defects in welding. The repair is beyond economically viable. Therefore new Plants are requested for ERC Dadu.
10	Gas Engine Driven Generator Set 400 KW	90.000	1	2	3	COMPRESSOR MAINTENANCE GROUP (CMG)	NA	30.000	Additional Gas Generator 400 Kw is required to cater the load of New proposed Gas Turbine driven Compressor Unit of 200MMCFD capacity at Shikapur compressor station in addition to 02 existing DR compressor Units. The Generator Set Installed at Hyderabad Compressor Station was procured in Year 2000. It is about 18 years old and we are encountering frequent unwarranted shutdowns & tripping. Its body parts are corroded and repair is time consuming & costly. Compressor Units also shutdown due to tripping of generator. The details of other Generators details installed at compressors stations in Transmission Deptment are attached as Annexure "C"
11	Unit Valves 01 Lot	60.000	-	1	1	COMPRESSOR MAINTENANCE GROUP (CMG)	NA	60.000	Solar HQ-2 Units A, B, C, D, E & F Auto Suction, Discharge, Loading & Vent valves are leaky, needs to be replaced
12	Hydraulic Crane 10 Ton	20.000	1	-	1	COMPRESSOR MAINTENANCE GROUP (CMG)	NA	20.000	Additional required for lifting of heavy equipments like rotor bundle, valves, coolers, filters, scrubbers etc at HQ-2 Compressor Station.
13	Fork Lifter 05 Ton	10.000	2	-	2	COMPRESSOR MAINTENANCE GROUP (CMG)	NA	5.000	Required for shifting of material from yard area to workshop, store & maintenace job at HQ-2 & HQ-3 compressor stations

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Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2019 - 20

Table# D-6.1

Table# D-6.1

For F.Y. 2019 - 20

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits	
							Qty	Ref. Year		FY 2019-20
Rs in million										
14	Tube well 4" bore	0.200	1	-	1	COMPRESSOR MAINTENANCE GROUP (CMG)	NA	0.200	Tube well required for filling of fire pond-KT, Amount included for tube well pump, motor, fittings, installation & commissioning charges.	
15	Conveyor Belt Mechanism - Store KT Standard	1.000	1	-	1	Stores	NA	1.000	Required for Crushing of meters	
16	Generator with Sound proof Canopy	20.000	5	-	5	Services	NA	4.000	CTS Sawan, CTS Bin Qasim and SMS Pakland are Critical stations. Proper cooling required for installed metering equipment as such uninterrupted power is required. Also power supply required due to law & order situations.	
17	Up-gradation of main water supply pump at Karachi Terminal & Gulshan-e-Iqbal.	1.200	2	-	2	Services	NA	0.600	Cabling & Distribution System of main supply water pump is 4 decade old and need upgradation.	
18	Major Overhauling of Waukesha 440 KW Gas Engine Generators - H.O	20.000	1	-	1	Services	NA	20.000	These Generators are Prime Power source of Electricity at HO. They have completed more than 60000 running Hours. Major overhauling is due this will increase life of Generators.	
19	Major Overhauling of 450 KVA Caterpillar Gas Engine Generator - H.O	6.000	1	-	1	Services	NA	6.000	This Generator is Standby Emergency Power source of Electricity at HO. Major overhauling is due as it have completed running Hours recommended by Manufacturer. This will increase life of Generator.	
20	Top Overhauling of 200 KVA Caterpillar Gas Engine Generators.	10.500	3	-	3	Services	NA	3.500	These Generators are Power source of Electricity at Head Quarters- Shikarpur, HQ Quetta & GM (East) Office Korangi - Karachi. They have completed more than 13000 running Hours. Top overhauling is due this will increase life of Generators.	
21	Radiator Core for 450 KVA Caterpillar Model G3412 Gas Engine Generator.	2.750	10	-	10	Services	NA	0.275	Required for the replacement of 10 years old radiator which are beyond economical repairs.	
22	Radiator Core for 200 KVA Caterpillar Model G3406 Gas Engine Generator.	2.800	8	-	8	Services	NA	0.350	Required for the replacement of 10 years old radiator which are beyond economical repairs.	
23	Replacement of Copper tubing for Chiller No-1 at Head Office with complete Recharging, Testing & Commissioning.	1.000	-	1	1	Services	NA	1.000	Existing 352 Nos. Copper tubes in Chiller at absorber and condenser side are not thermocouple type and does not meet the cooling load in parallel to Chiller -2. The tubes should be replaced with low finned copper tube.	

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2019 - 20

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
				Qty			Ref. Year	FY 2019-20	
Rs in million									
24	Supply, installation, testing and commissioning of new Cooling Tower nominal Capacity 2500 US GPM at roof top, Head Office.	7.000	1	-	1	Services	NA	7.000	Incase of any troubleshooting during operation of cooling tower, it could not be possible to keep isolate from existing cooling tower therefore, it needs some modification work in main suction & discharge line at roof top, Head Office.
25	Installation modification, Cutting, welding & grinding for Fixing New Gate Valve Size : 8 inch dia with all fitting and flanges at main condenser water line of Cooling Tower at Roof Top line at Head Office	0.800	1	-	1	Services	NA	0.800	Incase of any troubleshooting during operation of 04 Nos. cooling tower Gate Valves, it could not be possible to keep isolate from existing operation. Therefore it needs urgent replacement.
26	Supply, installation, testing & commissioning of new Control panel for Kone Elevators at Head Office.	20.000	-	1	1	Services	NA	20.000	Model of 04 Nos. existing Control Panel are obsolete and also spares are not available with local supplier and international market. Therefore its beyond repair to maintain spares
27	Variable frequency drive Unit(VFD) 37Kw	2.400	-	4	4	Services	NA	0.600	The presents VFDs are of Danfoss VFD model 6000 series which has been obsolete since 2007 by manufacture and its spare availability was discontinued by vendor since 2012
28	Gas Flow Computer 4 Stream	30.000	-	6	6	MEASUREMENT METERING	NA	5.000	
29	Gas Flow Computer 1 Stream	6.000	-	4	4	MEASUREMENT METERING	NA	1.500	
30	Multifunction Calibrator	2.600	-	2	2	MEASUREMENT METERING	NA	1.300	
31	Temperature Bath Calibrator	3.000	2	-	2	MEASUREMENT METERING	NA	1.500	
32	Dead Weight Tester 0-3000Psi	1.200	2	-	2	MEASUREMENT METERING	NA	0.600	
33	Hydraulic Pump 0-3,000 psig	2.400	6	-	6	MEASUREMENT METERING	NA	0.400	
34	Current Source / Simulator 4-20 milliamp	0.240	2	-	2	MEASUREMENT METERING	NA	0.120	

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Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
							Ref. Year	FY 2019-20	
Rs in million									
35	Variable Power supply Input 220 VAC Output 0 to 48 VDC 150 Watt	0.240	2	-	2	MEASUREMENT METERING TRANSMISSION	NA	0.120	
36	HART Communicator	3.200	2	-	2	MEASUREMENT METERING TRANSMISSION	NA	1.600	
37	Gas Leak Detector	0.660	2	-	2	MEASUREMENT METERING TRANSMISSION	NA	0.330	
38	On-line Moisture Analyzer - GQCL	10.000	2	-	2	GQCL	NA	5.000	Proposed units are required for installation at POD Check Meter Gambat South, Darn/ Chutto.
39	On-line Gas Chromatograph - GQCL	54.000	-	6	6	GQCL	NA	9.000	These online Gas Chromatographs 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. & POD Check Meters.
40	Bench type Gas Chromatograph - GQCL	18.000	2	-	2	GQCL	NA	9.000	The required bench type gas chromatographs one for SNG one for Natural Gas shall be placed at Lab KT for analysis of samples of SNG / NG received from large number of LPG-Air Mix Plants being installed & Natural gas from Distribution network for Energy based billing to respective customers.
41	Portable H2S / T.S Analyzer - GQCL	10.000	2	-	2	GQCL	NA	5.000	Proposed unit shall be used for Gas Quality spot checking of Hydrogen sulfide (H2S) & Total Sulfur (TS) at different POD check meter stations. Units shall be stationed at HQ-3 & HQ-1.
42	Submersible Pump Standard	0.170	2	-	2	Admin Services	NA	0.085	Required to Drain out Sewerage Water from Car Parking Basement Head Office.
43	Generator - Medical center Larkana 15 KVA	0.550	1	-	1	Medical	NA	0.550	Required for Medical Centre Larkana
44	Air Conditioner 1.5 Ton split	3.500	5	30	35	Medical	NA	0.100	Repl. of Old A/C's of H.O, KT, Hyd, & Larkana & Addl. For Hyd.
45	Stabilizer 10,000 watts	0.150	10	-	10	Medical	NA	0.015	Required for Split A/C's of Larkana & Nawabshah
46	Electro Fusion Control Box - LDC KT Input Voltage 230 V AC, input current 16 AMP, input freq 50 HZ, Output 8-48 V, output current 60-80Amp. Temp Range -10C to 50 C	0.350	1	-	1	LEARNING & DEVELOPMENT CENTRE	NA	0.350 KT	Required for PE Pipe Construction & Welding Training @ LDC KT

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Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
							Ref. Year	FY 2019-20	
Rs in million									
47	Over Head Handheld Gazomat JL269 - LDC KT Sensor: SemiConductor Detecting Gas: CH4 Sensitivity: 50ppm Warm up time: <30s Response Time: <10s Working Time: > 10hrs continuously battery: 3.VNiMH2100mAh charge time 5 Hours Condition -20 to60 C<95 %rh	0.040	2	-	2	LEARNING & DEVELOPMENT CENTRE	NA	0.020	Required for Overhead Leak Survey Training @ LDC KT
48	Tee Drilling Machine - DSM Central region 3/4-inch to 1- inch	1.000	4	-	4	DSM- CENTRAL REGION	NA	0.250	Required to equip all Maintenance teams, in order to attend low pressure complaints and to stop gas during rectification.
49	D-5 Drill Machine - DSM Central region 2-inch	1.800	3	-	3	DSM- CENTRAL REGION	NA	0.600	Required to equipped Welding teams, in order to stop gas leakage during emergencies.
50	Pipe Squeezing Machine - DSM Central region Steel (With Hydraulic Pump) 3/4" to 1-inch dia	1.200	4	-	4	DSM- CENTRAL REGION	NA	0.300	Required for Fitter teams for stoppage of gas leakage during emergency.
51	Pipe Squeezing Machine - DSM Central region Steel (With Hydraulic Pump) For 2-inch dia	1.600	4	-	4	DSM- CENTRAL REGION	NA	0.400	Required for Welding teams for necessary repair and rectification work.
52	Dewatering Pump - DSM Central region HEAVY DUTY, Diaphragm Type	3.000	3	-	3	DSM- CENTRAL REGION	NA	1.000	Required for de-watering during rectification jobs.
53	Odorant Injection System - DSM Central region Skid mounted	5.000	1	-	1	DSM- CENTRAL REGION	NA	5.000	Required to odorize natural gas of Remaining SMS
54	Generator 5 KV (For P.E Welding team)	0.200	2	-	2	CONSTRUCTION /MAINS LAYING- CENTRAL REGION	NA	0.100	Required for P.E Welding teams.
55	Generator 5 KV (For P.E Welding team)	0.200	2	-	2	REHABILITATION- CENTRAL REGION	NA	0.100	Required for P.E Welding teams. Replacement required for defective.

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Table# D-6.1									
For F.Y. 2019 - 20									
S/N	Description	Projected Capitalisation (Rs in million)	Qty			Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
			Addition	Replacement	Total		Ref. Year	FY 2019-20	
Rs in million									
56	Electro Fusion Machine Standard Box (With Assecories)	0.700	2	-	2	REHABILITATION CENTRAL REGION	NA	0.350	Required for Rehabilitation-Distribution Central Region
57	Pavement Breaker Electric Driven	0.200	2	-	2	REHABILITATION CENTRAL REGION	NA	0.100	For cutting of roads, hard soil and rocks etc.
58	D-5 Drill Machine 2-inch	1.200	2	-	2	UTILIZATION (IND)- CENTRAL REGION	NA	0.600	Required to equipped Welding teams, in order to stop gas leakage during emergencies.
59	Welding Plant	4.000	2	-	2	UTILIZATION (IND)- CENTRAL REGION	NA	2.000	Required for welding teams / to replace old and defective plants.
60	Drilling Machine Heavy duty Electric with accessories	0.100	4	-	4	UTILIZATION (C&D)- DISTRIBUTION CENTRAL REGION	NA	0.025	Required to equipped all Maintenance teams, in order to attend low pressure complaints and to stop gas during rectification.
61	Transformer Rectifier (Oil Cooled) As per Specification	1.750	5	-	5	CP	NA	0.350	For Cathodic Protection of Unprotected Underground Gas Pipeline 1. 1 Nos. CP West Region 2. 1 Nos. CP East Region 3. 3 Nos CP Central Region
62	Sand Blast Tank As per specs	0.500	1	-	1	CP	NA	0.500	Required for CP Distribution Dope Yard
63	Electrical Motor As per specs	0.150	1	-	1	CP	NA	0.150	Required for CP Distribution Dope Yard
64	Generator 5 KV (For P.E Welding team)	0.300	2	-	2	UTILIZATION (SERVICE)- DISTRIBUTION CENTRAL REGION	NA	0.150	Required for P.E Welding teams.
65	Tee Drilling Machine 3/4-inch to 1-inch	0.500	2	-	2	UTILIZATION (SERVICE)- DISTRIBUTION CENTRAL REGION	NA	0.250	Required to equipped all Maintenance teams, in order to attend low pressure complaints and to stop gas during rectification.
66	Pipe Squeezing Machine 3/4" to 1-inch dia Steel (With Hydraulic Pump)	0.600	2	-	2	UTILIZATION (SERVICE)- DISTRIBUTION CENTRAL REGION	NA	0.300	Required to equipped Welding teams, in order to stop gas leakage during new connections.

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Details of Plant & Machinery
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S/N	Description	Projected Capitalisation (Rs in million)	Addition			Replacement			Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
			Qty			Qty					Ref. Year	FY 2019-20	
Rs in million													
67	Electro Fusion Machine (With Assecories)	0.350	1	-	1				1	UTILIZATION (SERVICE)- DISTRIBUTION CENTRAL REGION	NA	0.350	Required to equipped Welding teams, in order to stop gas leakage during new connections.
68	Generator 5 KVA	0.400	1	1	2				2	MAINS LAYING (CONSTRUCTION)- WESTERN	NA	0.200	Required for P.E Teams
69	Electro Fussion Machine	0.420	1	2	3				3	MAINS LAYING (CONSTRUCTION)- WESTERN	NA	0.140	Required for P.E Teams
70	Grinder Angle	0.120	6	2	8				8	MAINS LAYING (CONSTRUCTION)- WESTERN	NA	0.015	For grinding purpose. Required for Steel Welding Teams
71	Electro Fusion Machine (With Assecories)	0.140	-	1	1				1	MAINS LAYING (CONSTRUCTION)- EASTERN REGION	NA	0.140	Required for P.E Welding teams, replacement of old / defective machines.
72	Electro Fusion Machine (With Assecories)	0.280	-	2	2				2	Rehabilitation Section-Eastern Region	NA	0.140	Required for P.E Welding teams, replacement of old / defective machines.
73	Generator 5KVA	0.200	-	1	1				1	DSM-EASTERN REGION	NA	0.200	Required for P.E Welding teams
74	Electro Fusion Machine (With Assecories)	0.140	1	-	1				1	DSM-EASTERN REGION	NA	0.140	Required for P.E Welding teams
75	Water Pump (Diaphragm Type)	1.200	1	-	1				1	DSM-EASTERN REGION	NA	1.200	Required for Emergency work
76	Tee Drilling Machine 3/4-inch to 1-inch (Mueller)	1.050	2	1	3				3	DSM-WESTERN REGION	NA	0.350	Required to equip Maintenance teams, in order to attend low pressure complaints & stop gas during leak rectification.
77	Pipe Squeezing Machine Steel (With Hydraulic Pump) 3/4" to 1-inch dia	0.917	2	1	3				3	DSM-WESTERN REGION	NA	0.306	Required for Filter teams to stop gas leak during emergency.
78	Pipe Squeezing Machine Steel (With Hydraulic Pump) upto 2 inch	0.728	2	-	2				2	DSM-WESTERN REGION	NA	0.364	Required for Welding teams for pipeline repair & rectification work.
79	De-Watering Pump Heavy Duty Diaphragm Type	1.200	1	-	1				1	DSM-WESTERN REGION	NA	1.200	Required for de-watering during pipeline rectification jobs.
80	Tee Drilling Machine 3/4-inch to 1-inch (Mueller)	0.700	1	1	2				2	UD (Industrial)- WESTERN REGION	NA	0.350	For Steel Welding Teams.

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
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Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement		Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
				Qty	Ref. Year			FY 2019-20		
									Rs in million	
81	D-5 Drilling Machine 2-inch (Mueller)	0.800	1	-	1	UD (Industrial)- WESTERN REGION	NA	0.800	For Steel Welding Teams.	
82	Pipe Squeezing Machine Steel 3/4 to 1-inch dia	0.364	1	-	1	UD (Industrial)- WESTERN REGION	NA	0.364	For Steel Welding Team.	
83	Pipe Squeezing Machine Steel 2-inch dia	0.364	1	-	1	UD (Industrial)- WESTERN REGION	NA	0.364	For Steel Welding Team.	
84	Generator 5 KV	0.400	-	2	2	UD (Services)- WESTERN REGION	NA	0.200	Replacement required against old ones which beyond economical repair.	
85	Electro Fusion Machine	0.280	-	2	2	UD (Services)- WESTERN REGION	NA	0.140	Replacement required against old ones which beyond economical repair.	
86	Generator 5 KV	0.400	-	2	2	REHABILITATIO N WEST	NA	0.200	Required for P.E Welding teams. Replacement required for defective.	
87	Electro Fusion Machine	0.420	-	3	3	REHABILITATIO N WEST	NA	0.140	Required for P.E Welding teams. Replacement required for defective.	
88	Water Pumping Machine	0.025	1	-	1	BILLING	NA	0.025	For Zonal office use.	
89	Dunky Pump	0.030	1	-	1	BILLING	NA	0.030	For malir zone	
90	Field Prover 20 M	15.000	-	1	1	Measurement Distribution Department	NA	15.000	Existing provers are more than 10 years old and require for on-site meter proving.	
91	Prover for Commercial Meter (Software Operated) Complete Job	24.000	2	2	4	MEASUREMENT- METER REPAIR SHOP (MRS)	NA	6.000	To prove commercial meters	
92	Regulator Test Bench	3.000	1	-	1	MEASUREMENT- METER REPAIR SHOP (MRS)	NA	3.000	Required to replace the old setup (existing setup for regulator testing is approx: 25 years old)	

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Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Qty			Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
			Addition	Replacement	Total		Ref. Year	FY 2019-20	
Rs in million									
93	Split Unit AC 2 Ton	0.750	5	-	5	MEASUREMENT- METER REPAIR SHOP (MRS)	NA	0.150	Required to newly constructed R&D Section
94	Paint Booth Complete Set	3.500	1	-	1	MEASUREMENT- METER REPAIR SHOP (MRS)	NA	3.500	Complete set of painting both is required for painting meters at meter painting section of MRS to meet HSE standard
95	X-Ray Fluorescent Machine (XRF) with sample preparation equipment Kit	3.200	1	-	1	COORDINATION	NA	3.200	It will be used for checking material composition of all metal parts including Pipes, Distribution and Transmission fittings and parts etc).
96	Tread Mills	1.000	-	2	2	COORDINATION	NA	0.500	For executive fitness club
97	Elliptical Trainer	0.400	-	1	1	COORDINATION	NA	0.400	For executive fitness club
98	Multi Gym	0.500	-	1	1	COORDINATION	NA	0.500	For executive fitness club
99	Recumbent Stationery Bike	0.100	-	1	1	COORDINATION	NA	0.100	For executive fitness club
100	Generator (3 KVA)	0.200	-	1	1	SS&CGTO	NA	0.200	Required at Head Office for Raids in different areas
101	Steel Pipe Squeezing Machine from 3/4" to 1" ϕ	1.750	5	-	5	DISTRIBUTION NORTH (LS)	NA	0.350	Additional required for out stations of Hyderabad Region to equip the Zones & Sub Zones.
102	Electric Generator Portable 5 KVA 50-60 Hz, 4 stroke petrol engine, Japan Assembled	0.600	3	-	3	DISTRIBUTION NORTH (LS)	NA	0.200	Additional is required for PE Connections & PE Mains laying work to establish new teams in Utilization department and sub zones of Hyderabad region .
103	Electro Fusion Machine Portable light weight with reader wand 0-48 amps	1.050	3	-	3	DISTRIBUTION NORTH (LS)	NA	0.350	Additional is required for PE Connections & PE Mains laying work to established new team in Utilization department.
104	T - Drilling Machine for drilling of Service Tee's of new connections.	0.500	1	-	1	DISTRIBUTION NORTH (LS)	NA	0.500	Additional required for out stations of Hyderabad Region to equip them.
105	Gas leak Detector Digital type with probing tool.	4.000	20	-	20	DISTRIBUTION NORTH (LS)	NA	0.200	Additional 20 required for each sub zone (being a electric device it becomes out of order but under ground survey is very essential activity of Distribution system to decrease the under ground leakages to reduce UFC)

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
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Table# D-6.1

Table# D-6.3.

For F.Y. 2019 - 20

S/N	Description	Projected Capitalisation (Rs in million)	Qty		Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
			Addition	Replacement			Ref. Year	FY 2019-20	
Rs. in million									
106	Pipe Bending Machine with Hydraulic Pump	0.500	5	-	5	DISTRIBUTION NORTH (LS)	NA	0.100	Additional 1 no for Zonal offices to bend the GI pipe for U Band connection
107	Dewatering Pump Portable 2 inch suction and 2 inch delivery with 4-cylinder 3.5 Hp, Japan assembled	0.900	3	3	6	DISTRIBUTION NORTH (LS)	NA	0.150	Additional required for out stations of Hyderabad Region to equip the Zones & Sub Zones. Replacement required against old & beyond economical repair pumps.
108	Steel Pipe Squeezing Machine from 3/4" to 1" φ	0.700	2	-	2	MAINTENANCE	NA	0.350	Additional required for different maintenance activities.
109	Generator 5 KVA Petrol / Gas	0.200	1	-	1	MAINTENANCE	NA	0.200	Additional required to generate electricity for emergency maintenance work at sites while existing Generators are attached with P.E electro fusion work.
110	Electro Fusion Machine Portable light weight with reader wand 0-48 amps	0.350	1	-	1	MAINTENANCE	NA	0.350	Required for emergencies & leak rectification & Theft eradication jobs.
111	Gas leak Detector Digital type with probing tool.	1.200	4	2	6	MAINTENANCE	NA	0.200	Required for different leak survey & rectification jobs of Maint. Deptt:
112	Dewatering Pump Portable 2 inch suction and 2 inch delivery with 4-cylinder 3.5 Hp, Japan assembled	0.450	1	2	3	MAINTENANCE	NA	0.150	Required for dewatering of small pits during repair maintenance activities during drainage over flow in the streets.
113	Dewatering Pump Portable 4 inch suction and 4 inch delivery with 4-cylinder 3.5 Hp, Japan assembled	0.500	1	1	2	MAINTENANCE	NA	0.250	Required for dewatering of small pits during repair maintenance activities during drainage over flow in the streets.
114	E-5 Machine 2"Ø	0.700	1	-	1	MAINTENANCE	NA	0.700	Required for pipeline Maintenance activities in all zones of Hyderabad Region.
115	D-5 Drill Machine 2" Dia along with all accessories	0.600	1	-	1	MAINTENANCE	NA	0.600	Required for pipeline Maintenance activities in all zones of Hyderabad Region.
116	T-Drilling Machine 3/4" . 1"	1.500	1	2	3	MAINTENANCE	NA	0.500	Required for drilling work of pipe fitting in all zones of Hyderabad Region.
117	Gehto Dewatering pump 4 inch suction and 4 inch delivery with 4- cylinder 5 HP	2.800	1	-	1	MAINTENANCE	NA	2.800	Due to severely risen underground water level at Hyderabad which is un-controlled water flow so it is essential equipment for Maintenance department which is used during Maintenance work on 40 years old underground network.

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Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
							Ref. Year	FY 2019-20	
118	Beveling & Cutting Machine	0.400	1	1	2	MAINTENANCE	NA	0.200	Required for different pipeline maintenance activities in Hyderabad city and all zones of Hyderabad Region.
119	Transformer Rectifier (Oil Cooled) As per Specification	1.750	5	-	5	CP	NA	0.350	For Cathodic protection of unprotected underground gas pipeline.
120	Welding Plants Dc generating set engine 3 or 4 cylinder current rating 400 with 05 KVA at 220 volts, Horse Power 32 Hp to 40 Hp, RPM 500 idle to 1850, Trolley mounted with all accessories / attachments.	2.400	-	1	1	DISTRIBUTION NORTH (US)	NA	2.400	Replacement required against old plant which is beyond economical repair
121	Electro Fusion Machine Portable light weight	0.700	2	-	2	DISTRIBUTION NORTH (US)	NA	0.350	Required for Rohri Sub Zone & Rehabilitation
122	Gas Leak Dectator Digital type with probing tool.	4.000	14	6	20	DISTRIBUTION NORTH (US)	NA	0.200	TBSs Connected with high pressure Supply Mainsfor Zones & Sub Zones
123	T-3 Drilling Machine for drilling of Service Tee's of new connections.	2.000	4	-	4	DISTRIBUTION NORTH (US)	NA	0.500	Required for UD & Zones / Sub Zones of Sukkur Region
124	Transformer Rectifier (Oil Cooled) As per Specification	1.400	4	-	4	CATHODIC PROTECTION (UPPER SINDH)	NA	0.350	Required for constructions of new CP stations proposed within the area of Sukkur & Larkana Region with reference to set targets during the FY 18-19.
125	Generator 5 KVA As per Specification	0.400	2	-	2	CATHODIC PROTECTION (UPPER SINDH)	NA	0.200	Required for supplying electricity during the recording of PSP readings & attending the ground bed faults of CP source points at the time of monthly/ weekly visits of locations where power source is not available due to load shedding / any other reason . Note: Presently readings are not recorded of CP stations where power source is break down .
126	Generator 20KVA Petrol/Gas	2.000	1	-	1	DISTRIBUTION NORTH (LS)	NA	2.000	Required 01 for Regional & Zonal offices (N'Shah, N'Feroze and Sanghar) and Sub Zone Moro for standby arrangements in case of power failure.
127	Steel Pipe Squeezing Machine 3/4"- 1" Dia Steel	1.750	5	-	5	DISTRIBUTION NORTH (LS)	NA	0.350	Additional required for Regional Maintenance and Rehabilitation/construction departments and 01 each for Nawabshah,Sanghar and Naushero Feroze Zone

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Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement		Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits
				Qty	Ref. Year			FY 2019-20		
Rs in million										
128	Gas Leak Detector Latest, Digital	2.000	5	5	10	DISTRIBUTION NORTH (LS)	NA	0.200	Replacement is required for Maintenance,N'Feroze & Sanghar Zones,Kazi Ahmed, Sakrand, Daur, Moro, Mehrabpur, Kandiaro,Bhirya, Padidan, Shahpurchakar.	
129	Battery for Generator 40 KV	0.010	1	-	1	BILLING	NA	0.010	For Office generator 40 KV (Battery, 12-Volt)	
130	Welding Plant Dc generating set engine 3 or 4 cylinder current rating 400 with 05 KVA at 220 volts, Horse Power 32 Hp to 40 Hp, RPM 500 idle to 1850, Trolley mounted with all accessories / attachments.	9.600	-	4	4	DISTRIBUTION NORTH (US)	NA	2.400	Additional required for Shahdadkot Sub Zone. Replacement required for plants 3 Nos. R.O Larkana & 1 No each at offices of Ratodero, Lakhi & Thul. as the welding plants there become very old and are beyond economical repair.	
131	Generator 5 KVA Petrol / Gas	1.000	-	5	5	DISTRIBUTION NORTH (US)	NA	0.200	Replacement required each for Sub Zonal offices of Dokri, Naudero, Ratodero, Nasirabad and Radhan for operational activities as the existing generators become very old and are beyond economical repair.	
132	Beveling & Cutting Machine Standard	0.200	1	-	1	DISTRIBUTION NORTH (US)	NA	0.200	Additional required for Regional Maintenance Dept. Larkana as there is no any machine for maintenance activity	
133	Cold cutting Machine Mounted chain upto 18" dia pipe with complete accessories like Chain, Couplines, Hudraulic pump etc.	8.000	1	-	1	DISTRIBUTION NORTH BALOCHISTAN	NA	8.000	For Constnuction Department of Balochistan Region.	
134	Transformer Rectifiers (Oil Cooled) As per specs	1.050	3	-	3	CATHODIC PROTECTION-D (NORTH)	NA	0.350	For Powering new CP Stations and for replacement of defective units	
135	Screw Type Standard Floor Mounted Unit. 110 KW Oil Fluided Air Cool. As per	7.500	-	1	1	MMP	NA	7.500	To replace the existing 60 KW Sullair air compressor which has become more than 20 years old and giving frequent trouble. The unit has also become under capacity.	
136	Pipe Threading Machine As per specs	0.300	-	1	1	MMP	NA	0.300	To replace the existing Pipe Threading Machine which has become more than 20 years old & giving frequently trouble.	
137	Major Overhauling of 02 Nos. Gas Engine Generators 440 KW Waukesha make installed at Head Office. 0	17.500	-	1	1	Services	NA	17.500	Required to equipped all Maintenance teams, in order to attend low pressure complaints and to stop gas during rectification.	
138	Direct Gas Fired Chiller (450 R Ton) for HO 0	35.000	-	1	1	Services	NA	35.000	Required to equipped all Maintenance teams, in order to attend low pressure complaints and to stop gas during rectification.	

Sui Southern Gas Co. Ltd.
Details of Plant & Machinery
For F.Y. 2019 - 20

Table# D-6.1

S/N	Description	Projected Capitalisation (Rs in million)	Addition	Replacement	Total	Utility	Unit Cost Comparison Data		Need Assessment/ Cost Benefits	
							Qty	Ref. Year		FY 2019-20
Rs in million										
139	Meter Test Bench Capacity upto 230,000 Cft./HR	100.000	-	1	1	Measurement Distribution Department	NA	100.000	Required for CRD Vehicles Hyderabad Region for F.Y (2017-18).	
140	On-line Gas Chromatograph	18.000	50	-	50	GQCL	NA	0.360	It is required for fabrication work.	
1	Total	774.188	421	138	559					

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Sui Southern Gas Company Limited
Detail of Motor Vehicles
For F.Y 2019 - 20

Table# D-6.3

S/N	Description	Projected Cost Rs	Addition Units	Replacement Units	Total No. of Units	Unit Cost Comparison Data		Need Assessment	Cost Benefit Analysis
						Ref. Year	FY		
							2019-20		
1	Ambulance	10,500	3	-	3	N/A	N/A	3,500	The acquisition of proposed vehicles will facilitate the company to meet OGRA prescribed Service & Performance Standards. Frequent breakdown of old vehicles would be avoided, which will result in enhanced reliance on available resources and improve efficiency.
2	Body Fabrication for Pickup 800CC	7,120	68	21	89	N/A	N/A	0.080	
3	Body Fabrication for Pickup 800CC	0,560	7	-	7	N/A	N/A	0.080	
4	Body Fabrication for Pickup Single Cabin 4x2	5,800	28	1	29	N/A	N/A	0.200	
5	Body Fabrication for Pickup Single Cabin 4x4	1,400	-	7	7	N/A	N/A	0.200	
6	Car 1000 CC	189,800	46	50	96	2016-17	1,123	1,977	
7	Car 1300 CC	89,800	19	13	32	2016-17	1,616	2,806	
8	Car 1800 CC	26,600	4	3	7	2017-18	2,758	3,800	
9	Fortuner	8,028	-	1	1	N/A	N/A	8,028	
10	Hi Roof Van	44,700	20	25	45	2017-18	0,750	0,993	
11	Hiace Van	72,000	2	10	12	2017-18	4,192	6,000	
12	Jeep	21,000	1	6	7	N/A	N/A	3,000	
13	Loader / Excavator	4,000	1	-	1	N/A	N/A	4,000	
14	Master Forland Super 4x2 Pickup	2,000	-	1	1	N/A	N/A	2,000	
15	Motorcycle 100 CC	0,240	2	-	2	N/A	N/A	0,120	
16	Motorcycle 125 CC	1,200	6	2	8	N/A	N/A	0,150	
17	Motorcycle 70 CC	16,950	85	141	226	2017-18	0,040	0,075	
18	Pickup 800 CC	95,400	26	80	106	2017-18	0,699	0,900	
19	Pickup Double/Single Cabin 4x4	201,500	19	23	42	2017-18	3,962	4,798	
20	Pickup Single Cabin 4x2	240,000	112	28	140	N/A	N/A	1,714	
21	Standard Trailer (350-450 Hp, Toting Capacity 50-80 Ton)	15,000	-	-	-	N/A	N/A	-	
22	Tractor	2,500	1	-	1	2016-17	4,630	2,500	
23	Tricycle	0,500	2	-	2	N/A	N/A	0,250	
24	Truck	25,000	1	2	3	2016-17	6,458	8,333	
25	Truck - Crane Mounted	15,000	-	-	-	N/A	N/A	-	
26	Vehicle Tracking System	10,900	-	-	-	N/A	N/A	-	
27	GRAND TOTAL	1,107,498	453	414	867				

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SUI SOUTHERN GAS COMPANY LIMITED **Table# D-6.3.1**
DETAILS OF VEHICLES (OPERATIONAL & NON-OPERATIONAL)
PETITION 2019 - 20

				Rs. In Million
S#	OPERATIONAL VEHICLES	ADD.	REP.	TOTAL
1	Ambulance	3	-	10.500
2	Car 1000 CC	23	30	108.100
3	Car 1300 CC	1	3	11.400
4	Hi Roof Van	20	25	44.700
5	Hiace Van	2	10	72.000
6	Jeep	1	6	21.000
7	Motorcycle 125 CC	6	2	1.200
8	Motorcycle 70 CC	85	141	16.950
9	Pickup 800 CC	26	80	95.400
10	Pickup Double/Single Cabin 4x4	19	23	201.500
11	Pickup Single Cabin 4x2	112	28	240.000
12	Truck	1	2	25.000
13	Truck - Crane Mounted	-	-	15.000
14	Tractor	1	-	2.500
15	Loader / Excavator	1	-	4.000
16	Tricycle	2	-	0.500
17	Motorcycle 100 CC	2	-	0.240
18	Fortuner	-	1	8.028
19	Master Forland Super 4x2 Pickup	-	1	2.000
20	Vehicle Tracking System	-	-	10.900
21	Body Fabrication for Pickup Single Cabin	28	1	5.800
22	Body Fabrication for Pickup 800CC	68	21	7.120
23	Body Fabrication for Pickup Single Cabin	-	7	1.400
24	Body Fabrication for Pickup 800CC	7	-	0.560
25	Standard Trailer (350-450 Hp, Toing Capacity 50-80 Ton)	-	-	15.000
26				
	Sub-Total Operational (A)	408	381	920.798
	NON-OPERATIONAL VEHICLES			
1	Car 1000 cc	23	20	81.700
2	Car 1300 cc	18	10	78.400
3	Car 1800 cc	4	3	26.600
	Sub-Total Non-Operational (B)	45	33	186.700
	Grand Total (A+B)	453	414	1,107.498

Sui Southern Gas Company Ltd.

Table#D-6.4

Detail of Land
For F.Y 2019 - 20

NO.	DESCRIPTION	Amount Rs in million	Need / Justification
1	Acquisition of Land for New CP Stations - Hyd & Nawabshah	0.300	Required Land for CP Stations Ex-NGEP
2	Acquisition of Land for New CP Stations - Sukkur & Larkana	0.300	Required Land for CP Stations Ex-NGEP
3	Acquisition of Land for New CP Stations - Quetta	0.300	For the installation of New CP Stations in Balochistan
	Total	0.900	

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Details of Buildings
For F.Y 2019 - 20

S No.	Description	F.Y 2019-20 Revenue Petition Rs Million	Need / Justifications
1	Re-construction of boundary wall of HQ west side (200 Rft) and Compressor / Industrial area. (1800 Rft)	10.000	Existing condition of boundary wall is deteriorated / tilted & require re-construction & major repairing work. From security point of view, boundary wall should properly be maintained.
2	Construction of wash room at CTS Sawan. (48 Sft)	0.192	No substitute is available. Wash rooms are required for technical staff during operational activities at CTS Sawan
3	Construction of Care taker Rooms (300 Sft each)	1.500	Currently no room is available for care takers. Therefore 02 no rooms are required.
4	Earth Filling of ROW from MP-155.25 to MP-155.75 (1025 Rft)	0.513	A permanent lake has been formed due to water logging, which is creating hurdles in monitoring, repair & maintenance of MPL. Therefore, earth filling of ROW is required.
5	Reconstruction of retaining wall at KMP-263 U/S River Indus	1.440	About 150 ft wall has been fallen due to erosion of heavy rainy water. It is necessary to reconstruct wall at KMP-263 U/S River Indus along with placement of RCC Slabs on culvert boxes for the safety of pipeline.
6	Development of ROW at MP-244, 150 ft long, 10 ft wide and about 15 feet deep. (22500 Cft)	0.675	ROW at MP-244 near SMS Hatri has slowly been eroded due to near by pond water and there is danger of exposing of 24" dia Sanghar Karachi line.
7	Tube Well 4" dia with pump	2.000	At present water is obtained from near by canal, which is not suitable for drinking purpose & also not suitable for equipments. In order to overcome this problem Tubewell is better option than filter plant.
8	RCC Slab & maintenance work of rain nala at Compressor Station. (6000 Sft)	1.200	Existing RCC Slabs are broken in pieces, unrepairable and major repair / maintenance work of nala is required.
9	Construction of new Caretaker Rooms (1800 Sft)	4.500	Required at CP Stations at U/S, D/S, KPD V/A, Bukhari V/A, Jamshoro PS, Achar Sheedi V/A, Near Mazari Gas Field, Mari Gas and Bukhari V/A etc.
10	Construction of new motor workshop room (400 Sft)	1.000	Required at CP Stations at U/S, D/S, KPD V/A, Bukhari V/A, Jamshoro PS, Achar Sheedi V/A, Near Mazari Gas Field, Mari Gas and Bukhari V/A etc.
11	Caretaker Room / Guard Room alongwith veranda. (300 Sft each)	1.500	There is no room available for caretakers. Therefore 02 No. caretaker rooms are required at MPL locations i.e. CTS MVA KMP-00 & Malir Nadi U/S MP-337.
12	Modification of T-3/1 bungalow (3200 Sft)	1.000	Condition of bungalow is worse as no major maintenance job has been carried out for last 10 years.
13	Construction of new Caretaker room (300 Sft each)	3.000	New room is required for caretakers at installation of new solar system i.e. V/A KMP-342 of 20" & 24" dia.

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Details of Buildings

For F.Y 2019 - 20

S No.	Description	F.Y 2019-20		Need / Justifications
		Revenue Petition Rs Million		
14	02 Rooms with Toilets	1.400		Front gate security room of HQ-Sui is in very poor condition, cracks are developed in walls & ceiling which is very dangerous. New room is required for security guards. We also have no guest room for non MPL staff therefore new room is required for HQ guests and technical teams.
15	Modification of Employees Quarters	0.500		Modification of 01 No.T-4 and 01 No.T-5 quarter is required to maintain company's asset. Existing condition of quarters is very worse & deteriorated.
16	Modification of Executive mess / Transit (10,000 Sft)	1.500		Modification of Executive mess is required to maintain company's asset. Existing condition of mess is very worse plaster and rock wall is faddy and deteriorated
17	Extension of Office block (2 Rooms) (375 Sft each)	2.250		New rooms in Office Block are required due to increase in strength of Executives.
18	Modification of Empolyees Quarters (960 Sft Each)	0.960		Existing condition of T-4 & T-5 quarters is very deteriorated and in poor condition therefore modification is required.
19	Modification of T-2 Bungalow (2000 Sft)	2.000		Existing condition of bungalow is very deteriorated and in poor condition therefore modification is required.
20	Solar Room	5.376		Additional is req'd for MP-155 on ILBP
21	Care Taker Room	0.538		Replacement of deteriorated rooms at MP-63, 135 on ILBP & KMP-42 on QPL Additional is req'd for MP-309 on ILBP as there is no c/taker room with CP station
22	Modification of E-Type Bungalows (E-1, E-2 & E-3)	2.400		In order to maintain Company Asset, modification of E-1, E-2 & E-3 Bungalow are required. Existing floor, walls, roof, wash rooms etc of these bungalows are very deteriorated and require modification.
23	Re-Construction of Boundary wall along Abdul Hassan Isphani road (1500 Rft)	10.500		The foundation of existing boundary wall is more than 40 years old and has been raised time to time as per requirement. Now it is not possible to raise it further as the external road has
24	Supply & Installation of Trench Plates (RCC) at Hyderabad Compressor Station.	1.000		The storm & rain water trenches (RCC) at HQ-3 compressor station are broken. It is safety hazard & essentially need replacement.
25	Record Room	1.500		To maintain the ongoing Record of 10 years as per PPRA Rule 2004.
26	Renovation of Power House at HQ- Quetta	1.500		Existing condition of power house wall and floors are in worst condition due to weather conditions as roof & wall are effected by snow fall, so Good house keeping is urgently

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Details of Buildings
For F.Y 2019 - 20

S No.	Description	F.Y 2019-20 Revenue Petition Rs Million	Need / Justifications
27	Supply & Fixing of Civil and Masonry work for Tiles at Basement (Offices + Power House Area) HO	2.000	Existing Floor of Power House Basement is damaged. This is urgent required for improvement of workplace and make dust free area which will increase the life of equipment and maintenance of good house keeping.
28	Renovation of Electrical Rooms at CRD and Marketing Building - HO	1.400	Existing condition of wall and floors are in worst condition at Electric Room at CRD & Marketing Building, Head Office so Good house keeping is urgently required.
29	Construction of Workshops by Aluminum Glass partition at Generator room at RO-Office-Hyderabad	2.000	Power Generation, HVAC & Electrical Distribution system established five years ago at RO Hyderabad but there is no maintenance workshops for Maintenance of above system and daily routine complains. Workshops are required to meet in house maintenance of equipment to save time & money.
30	Construction of 1st Floor of (Meas-Trans) Building at KT.	9.000	Constructoin of offices for additional Executives and staff, MIS and Record Room, Monitoring Room and Store.
31	Construction of 03 Rooms & one wash room for Measurement Engineers & Staff at HQ-1	3.500	Presently 01 DCE I/C Measurement and office staff all sit in one small room. Over the time No. of SMSs, PODs increased & also Sawan custody transfer station for SNGPL has been added. Additional staff shall be posted at HQ-1 to satisfactorily carry-out required jobs. Therefore, these rooms are essentially required for offices and safe custody of office record / data of the SMSs & POD Check Meters.
32	Analyzer Shelter/ Room	9.000	Proposed Analyzer Shelters are required at different POD Check Meters/ SMSs 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.
33	Construction of Double Story Building at H-8 Hawksbay Beach Hut.	14.000	Existing structure is 15 Years Old and has been damaged because of climate.
34	02 Bed Room Attached Bath Rooms, & Kitchen, Drawing / Dinning Area with Boundry Wall, Including Parking Area. Civil Work (AS Store / Work Shop)	0.900	Existing workshop in an old room adjacent to GTI which is being dismantled and new GTI Lab is being constructed. R.O. HYD AS requires new workshop space for carpenter and store. (Amount in Rs. Mat be Consider as per Actual).

Sul Southern Gas Company Ltd.
Details of Buildings
For F.Y 2019 - 20

Table # D-6.5

S No.	Description	F.Y 2019-20 Revenue Petition Rs Million	Need / Justifications
35	Civil Work (Masjid Rear Boundry Wall).	0.504	Existing Rear Boundary wall of the Masjid is in depleted and dangerous condition. Demolition of the existing and reconstruction of the wall is required. (Amount in Rs. Mat be Consider as per Actual).
36	White wash of KT Medical Centre	0.250	White wash was done in 2014
37	Construction of wash room & store in KT Medical Centre	0.250	Required for lady doctors & staff
38	Repair of Medical Centre Larkana	0.200	Repair / Maintenance required at Medical Centre Lrk.
39	Construction of Computer Lab at LDC Hyd	2.200	Construction of Computer Lab at LDC Regional Office Hyderabad for 20 computers to in part computer training to the course participants @ LDC regional office HYD
40	Construction of 2 Nos. Bedrooms	0.600	Construction of 2 Nos Bathroom with wash basin for participants of PE, Gas Fitters and other technical trainings held at LDC welding yard for subordinate staff, casual workers and other participants @ LDC Hyd.
41	Re-Construction/ Renovation of Floor for Dope Yard Section	0.263	Required for Flooring for Dope Yard Section
42	Construction of Executive Office Room for Dope Yard Section	0.320	Required Executive Office Room for Dope Yard Section
43	Providing & Laying of 10" dia Swerage Pipeline outside the Office Building of Plot No.F-37 & F-38,	0.600	For proper Swerage of water in Motor Cycle Parking place.
44	Replacement of Asbestos Sheet with T' Iron approx 2500 Sq/Ft.	1.000	As per observations of HSE Asbestos sheets can cause Lungs Cancer. To be replaced with T- Iron Roof.
45	Construction of Partition	0.500	Required for seperating Executives / Subordinate Staff Cabins.
46	RCC Hall for Industrial	2.500	Required for seperating Industrial Testing & Repair Sections/ safe custody
47	Pevment Flooring	0.500	Required to connect new building with the old.

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Details of Buildings

For F.Y 2019 - 20

Table # D-6.5

S No.	Description	F.Y 2019-20 Revenue Petition Rs Million	Need / Justifications
48	Renovation of MRS-KT Building (Change of Window Blinds, Aluminium / Wooden doors / Whitewash / etc.)	2.000	Renovation is due (More then 10 years).
49	Construction of Building for Executive Office (Office Block)	25.000	Required for Office Space for Executives
50	MS Shade with CC flooring at three Places	25.000	Due to enhancement of UFG special assignment, flooring is needed to stacking of meters and related works
51	Renovation of Existing MS Shade (CC flooring, Electric Work, Paint, II Sheets, etc.)	0.700	Renovation is due (More then 03 years).
52	Epoxy Paint on floor at Commercial Section	0.720	It is required for commercial meter testing & repair section due to the frequent movement of heavy meters
53	Renovation of CNG Pump Building for Accommodation of Sport Teams at Karachi Terminal	3.056	As approved by MD, Renovation of CNG Pump Building which includes Water Line 1" Dia from Employees Area to Ex-Echotec, New Power House to Ex-Echotec, Repair and maintenance of Floors, White Wash and Doors. Renovation is required to accommodate sport teams.
54	Building of HSE&QA Excellence Center at HQ-II Daur (All construction, finishing, electrical and mechanical work etc.)	1.200	A training facility at HQ-II needs to be established for employees to enhance their skills pertaining to HSE. This facility will help them carry out their operations in a safe and conducive environment. Furthermore, safety demonstrations, induction trainings, Safety demos, training videos and contractors' training will also be given to visitors as well.
55	Watch Towers	2.600	HQ-3
56	Care Taker Room with Toilet	4.550	HQ-3 (1 each at KMP-120, KMP-144) & HQ-2 (1 each at MP-200, KMP-165 1/2, MP-170, KMP-127, KMP-105
57	Construction of RCC room CP Store at R.O Office Hyderabad	0.845	Keeping costly TEGs, TRs, Cables, Equipments, Tools & other inventory CP items.

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Details of Buildings
For F.Y 2019 - 20

S No.	Description	F.Y 2019-20 Revenue Petition Rs Million	Need / Justifications
58	Room 20' x 20' x 10' with iron racks	1.500	A room measuring 20' x 20' x 10' with iron racks for up-keeping the master record of Sales department, Hyd is required to be constructed within the premises of Regional Office, SSGCL, Hyderabad for safe custody.
59	Demolish of existing ERC / Stores and Construction of new RCC Shops and 01 common wash Room at Pipe Yard Sukkur. Total measuring 12'x80' Sqft	3.840	The existing construction has exhausted its life .
60	Demolish of Existing Executive wash Rooms & Reconstruction of New standard Wash Rooms along with Electric work at RO Sukkur Measuring 12'x16' Sqft	1.152	As the existing wash Rooms are in Poor Condition.
61	Demolish & Reconstruction of existing CFC Room with all electric work etc measuring 22'x16'	1.408	Very Old construction (T-Iron construction)For Good House Keeping and good image of the Company
62	Construction of CP Workshop Cum Office at R.O Larkana.	0.896	Required for DCE (CP) office
63	Construction of CP Workshop Cum Office of engineer / CP Staff R.O Sukkur .	0.717	Required office for Engineer (CP)
64	Regional Office Building N'shah	5.500	For consultancy
65	Alucobond sheet (Admin Block)	8.000	The concern of Sr. Management on the aggravated outlook og SSGC Regional Office Building Quetta. Approved and estimated by Sr.GM(D) and I/C DGM (Civil Works) on the directives of MD SSGCL on his visit 03rd May 2016
66	Wooden Cabins as per pattern Head Office Engineering Block (2 floors)	5.000	To convert rooms into wooden partition (as per Head Office) we can accommodate more employees
67	Platforms and Cages for New CP Stations	0.180	For Catholic Protection of Distribution Mains in Balochistan
68	Renovation of Complete Floor Tiles for CP Office Quetta	0.120	For Repair/Renovation of CP office flooring

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Details of Buildings

For F.Y 2019 - 20

S No.	Description	F.Y 2019-20		Need / Justifications
		Revenue Petition Rs Million		
69	STORE ROOM	10.000		Additional required for Zonal Office Thatt, Dadu and Mirpur Khas
70	Odorizers for SMS at different locations of Distribution Sindh	50.000		Required for senior visitors at V.I.P room
71	Laying of 4" dia pipeline from Canal to HQ main ground Water tank (8000 Rft)	7.200		Required for Zonal office.
72	Construction of Medical Centre at Regional Office Hyderabad	8.570		For additional Maintenance teams to cope-up the emergencies as number of TBS increases. Replacement of outlived vehicle KR-7828
Grand Total		281.183		

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Sui Southern Gas Co. Ltd.
Details of Telecommunication
For F.Y. 2019 - 20

Table#D-6.6

S/N	Description	Amount Rs in million	Need / Justification
1	Telecom links RS-2 - RS-NARA, RS-Nara - RS-Kadanwari, HQ-2 - RO-Nawabshah & TM Khan - RS Golarchi.	70.000	Have to vacate old 2 GHZ frequency as per directives of PTA. Furthermore old system has lived its economical life of 10 years.
2	SCADA RTU for Distribution South.	15.000	Real Time monitoring of TBS for gas load management by Distribution - South.
3	SCADA RTU for Distribution North.	15.000	Real Time monitoring of TBS for gas load management by Distribution - North.
4	Battery charger for RS-4, TM Khan, RS-3, RS-2 & Kadanwari.	6.000	New Microwave tower requirement is 48 VDC for which 48 VDC Power System is required.
5	Erection & Civil foundation work of 150 ft self support tower at HQ-SIBI	4.500	A Self support tower is already in stock only erection and foundation work is required.
6	Battery bank for TM Khan, RS-3 & RS-2.	2.250	Battery bank required as standby power resources.
7	Pressure transmitter	2.450	Required for IRBP & ILBP.
8	Solar module for Karchat	1.300	Solar modules are required for RS-Karchat to change 20 years old modules which are depleting its power output.
9	Battery bank solar application for Karchat	2.800	Solar application battery bank required for increasing DC power standby capacity.
10	PABX Exchange for Distribution SITE Office.	4.500	More than 10 years old, spares not available-Require for office use
11	PABX Exchange for North Karachi Zone	0.700	Out of order, beyond economical repair-Require for office use
12	Network Management System (NMS) at Head Office	1.250	For monitoring IP network.

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Sui Southern Gas Co. Ltd.
Details of Telecommunication
For F.Y. 2019 - 20

Table#D-6.6

S/N	Description	Amount Rs in million	Need / Justification
13	Telephone sets Analog with CLI.	0.750	New telephone sets required to accommodate new requirements of executives.
14	Telephone sets Digital.	0.700	New telephone sets required to accommodate new requirements of executives.
15	AMF Trex device communicator	1.600	Communicator required for scaling of SCADA field instruments.
16	Smart Cellular Phones for SGM's & GM's	3.750	Previous cellular phones being 2 years old as per approved cellular phone policy by BOD.
17	Smart Cellular Phones for DGM's	3.910	Previous cellular phones being 2 years old as per approved cellular phone policy by BOD.
18	Smart Cellular Phones	1.275	Required for newly promoted/inducted executives in Grade-VII.
19	Self Support Tower for RS-4	56.250	Required for all maintenance teams for gas leak detection so as to ascertain the leakage point.
20			
Total		193.985	

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Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2019-20

S/N	Description	Rs in million
		Amount
1	Pneumatic analog pressure guage	0.100
2	Digital pressure guage (0-120 PSI)	0.300
3	Spy eye glasses Hd	0.800
4	Voice activated audio recorder / listaning bug	0.160
5	GPS enabled magnetic vehicle tracking device	0.280
6	Black box hidden Spy Camera	0.280
7	2" Control Valve	3.000
8	6" Control Valve	5.400
9	8" Control Valve	45.800
10	Air Blower Heavy Duty	0.020
11	Air Compressor Unit	0.800
12	Air Pump (Vehicle)	0.015
13	Andriod Based GPS Handheld device	0.200
14	Angle Grinder	0.260
15	Battery Charger (Portable)	0.100
16	Battery Tester	0.050
17	Bench Grinder	0.035
18	Bench type grinder machine 1/2 HP single phase 220 volt.	0.020
19	Bench Vise 6"	0.200
20	Black Box Hidden Spy Camera	0.050
21	Blower for Domestic & Commercial Section	0.090
22	Bore Gauge Set	0.250
23	BP Apparatus	0.040
24	BP Apparatus (Trolley Mounted)	0.020
25	C-Clamp Meter	0.600
26	Chain Pulley Block	0.040
27	Chain Pully Block	0.100
28	Cholesterol Hand Set Meter	0.050
29	Clamp Meter with accessories (Digital)	0.200
30	Clamp Meter with accessories (Digital)	0.050
31	Combination Set	0.040
32	Compression Meter	0.060
33	Cutter for PE Pipe 125mm Pipe	0.018
34	Cutter for PE Pipe 180mm Pipe	0.018

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Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2019-20

S/N	Description	Rs in million
		Amount
35	Cutter for PE Pipe 20mm Pipe	0.018
36	Cutter for PE Pipe 63mm Pipe	0.018
37	Cyber Locks	40.000
38	Cyber Locks/ Keys & Other Hardware Accessories	32.480
39	Data Logger	0.450
40	Dead Weight Tester	2.500
41	Depth Micrometer	0.250
42	Dial Caliper	0.100
43	Dial Indicator	0.420
44	Die	0.375
45	Die Set	0.300
46	Die Set (1/2" to 1")	0.100
47	Digital Multimeter with clamp meter	0.200
48	Digital Pressure Gauge	0.555
49	Digital pressure gauges	1.250
50	Digital Pressure Gauges (0-120 PSI)	0.050
51	Digital Pressure Guage	0.450
52	Digital Pressure Guages	0.350
53	Digital Pressure Guages	0.125
54	Digital Thermameter	0.500
55	Digital Weighing Scale	0.060
56	Direct Current Voltage Gradient (DCVG)	1.400
57	Dressing Trolley	0.080
58	ECG Machine	0.800
59	Electric Heat Tracing Cable	1.400
60	Electro Fusion Machine (With Assecories)	0.280
61	Electronic Pressure Gauge (Analog Type)	0.600
62	Examination Light	0.025
63	Exhaust Fan 12 Inch Plastic body	0.350
64	Exhaust Fan 9 Inch Plastic body	0.350
65	Explosion proof sodium lights fixtures	1.980
66	Eye / Head Massager	0.005
67	Flange Spreader	2.000
68	Flow Stopper Valve	0.100
69	Foot Massager	0.025

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Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2019-20

S/N	Description	Rs in million Amount
70	Gas Cutting & Welding set	0.300
71	Gas Leak Detector	0.300
72	Gas Leak Detector	8.550
73	Gas Leak Detectors	0.400
74	Gas Pipeline Locator	1.500
75	Gas Tracker Pipeline Locator	1.340
76	Gascoseeker	1.350
77	Gauges Digital	0.060
78	GCV Management	450.000
79	Generator	0.400
80	Glucometer	0.050
81	GPS enabled magnetic vehicle tracking device	0.050
82	Grease Gun	0.500
83	Grinder	0.120
84	Grinder Machine	0.120
85	Hand Drill Machine Hilti Type	0.250
86	Hand Grinder	0.070
87	Hand Held Meter Reading Device	0.075
88	Hand Held/ Bag Stitching Machine	0.200
89	Hand Pallet	0.500
90	HART Calibrator	1.600
91	Heating mirror	0.240
92	Heavy Duty Rechargeable Light	0.400
93	High Pressure Grease Gun	0.125
94	High Pressure Pipe Bender 2"	0.500
95	Hilti Drill Machine Power Tool	0.130
96	Holiday Detector	3.000
97	Hydraulic Grease Gun	0.300
98	Hydraulic Pallette	0.400
99	ICE Box Large Size	0.030
100	Impact Tool Driver	0.800
101	Infrared Lamp	0.020
102	Infra-red Temperature Meters	0.120
103	IRON SAFE (Fireproof Safe)	0.800
104	Jal-bujh Timer Device	0.140

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Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2019-20

S/N	Description	Rs in million
		Amount
105	Ladder (Aluminum) Folded	0.200
106	Laser Distance Measuring Device	0.120
107	Laser Treatment For Pain Management	0.350
108	Leak Clamp 42" Dia	13.000
109	Leak Detector	0.325
110	Loose Tools	1.670
111	Loose Tools (List Attached), Make (U.K/ USA/Germony)	0.600
112	Manual Hydraulic Stackers (Hand Pallet)	0.300
113	Measuring Tool Set	0.300
114	Measuring Wheel	0.150
115	Measuring Wheels	0.100
116	Mechanized Plasma Cutting Machine along with accessories	3.000
117	Multi Meter	0.225
118	Multimeter	0.100
119	Multimeter with accessories (Digital)	0.400
120	Multimeter with accessories (Digital)	0.600
121	Multimeter, tangtester and half cell	0.200
122	Multipurpose Kit Bags	0.120
123	Odorant Detector	0.700
124	Odorizer Unit	5.500
125	Out side Micrometer	0.500
126	Patient Bed with Mattress	0.060
127	Patient Monitor	0.035
128	Peel Tester Force in Kg & Lbs	0.200
129	Peeling & Champering tool for 20mm pipe	0.018
130	Peeling & Champering tool for 63mm pipe	0.018
131	pH Meter	0.036
132	Pipe Cutter	0.024
133	Pipe Line Locator	0.150
134	Pipe Vice with folding stand	0.250
135	Pipe vice with Stand	0.050
136	Pipe Vise 6"	0.200
137	Pipeline Cable Locator	0.450
138	Pipeline Locator	1.875

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Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2019-20

S/N	Description	Rs in million
		Amount
139	Pipeline Locator	1.900
140	Pipeline Locators	0.440
141	Plunger	0.300
142	Plunger Bar	1.160
143	Pneumatic Analog Pressure Gauges	0.120
144	Pneumatic Analog Pressure Gauges (0-50 PSI)	0.030
145	Pneumatic Gun for Commercial & Industrial Meters	0.150
146	Pneumatic Spray Gun for Paint	0.015
147	Portable Welding Units (Engine Driven)	1.200
148	Power Grinder	0.100
149	Pulse Oximeter	0.008
150	Pump with 3 Phase motor (Set) skid mounted	0.500
151	Ratchet Die Set	0.240
152	Ratchet set with sockets	0.100
153	Ratchet Threader Set	0.400
154	Retractable Metal Aluminum Ladder	0.045
155	Retractable Metal Ladder (10 Feet) Heavy Duty	0.025
156	Retractable Metal Ladder (24 Feet)	0.050
157	Riveter	0.060
158	Road Breaker (Electric)	0.600
159	Road Ditching Drill	0.200
160	Roller Bearing V Block Set	0.150
161	Safety Kit	0.035
162	Scratch and Sniff Odorant Strips	0.100
163	Service Valve Changer	0.500
164	Set of Tools Box containing special spanners, wrenches, allen	0.500
165	Smart Metering	525.000
166	Smart Wrenches	0.200
167	Spy Eye Glasses HD	0.240
168	SS Tube Bender 1"	0.600
169	Stacker (Battery Operated)	0.500
170	Steel Almirah Irani (Rack)	0.020
171	Steel Bench Vice	0.025
172	Steel Pipe Squeezing Machine	1.750

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Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2019-20

		Rs in million
S/N	Description	Amount
173	Steel Racks	2.250
174	Swivel Locks	0.200
175	Tap & Die Set NC/NF	0.350
176	TDS Meter	0.036
177	Test Bench for Gas Meter Testing	1.000
178	Tong Tester	0.100
179	Tool Box	0.040
180	Tool boxes	0.005
181	Tool Re-Rounding 20mm	0.018
182	Tool Re-Rounding 63mm	0.018
183	Tool Trolley with Tools	0.150
184	Tool-Kit Trolley	0.700
185	Total Station (Theodolite)	0.900
186	Tri-Pod	0.060
187	Tripod stand with Vice up to 2"	0.720
188	Vehicle mounted fire extinguisher (with mounts and	0.075
189	Vernier Cliper Digital	0.300
190	Voice activated audio recorder / Listening Bug	0.026
191	Water Dispensar	0.110
192	Water Engine Pumps Petrol Engine Driven Water Pump;	0.065
193	Water pressure (karcher) Machine	3.000
194	Water Pump with Motor	0.400
195	Weight Machine	0.050
196	Wheel Balancer	0.180
197	Wheel Barrow	0.020
198	Wheel Chair	0.075
199	Wire slings	0.200
200	X-Ray Illuminator	0.100
TOTAL		1,204.369

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Table#D-6.7

Sui Southern Gas Co. Ltd.
Details of Tools & Equipments
For F.Y. 2019-20

		Rs in million
S/N	Description	Amount

Under UFG Reduction Plan of the Company special emphasis has been placed to increase number of steel & PE network maintenance teams and the existing teams be equipped with modern tools & equipments.

The purchase of above tools will facilitate performance of duties by company employees and improve their efficiency. The worn out tools have also been proposed for replacement.

Tools have usually very short life and in SSGC the tools are depreciated in 3 years. Besides UFG control activities Tools & Equipments are required to perform routine electrical/mechanical maintenance jobs by our services department.



Sui Southern Gas Company Limited

Ref: RA 21/20
Dated: 20 February 2019

The Registrar
Oil & Gas Regulatory Authority
Plot # 54, ZTE Plaza, Fazal-e-Haq Road
Near PIA Booking Office, Blue Area
Islamabad.

Subject: PETITION FOR ESTIMATED REVENUE REQUIREMENT FOR FY 2019-20.

OGRA Ref: OGRA-9(505)/2019 dated 06 February 2019.

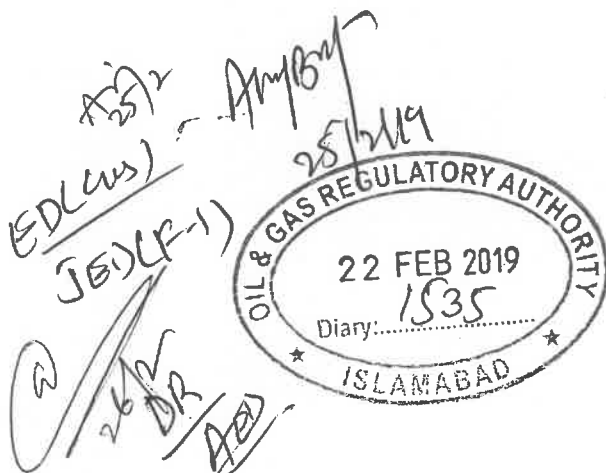
Dear Sir,

This is in continuation to our letter # RA/21/20 dated 30 November 2018 through which SSGC filed petition for Estimated Revenue Requirement for FY 2019-20.

Please find attached the outstanding Tables # D-5 & D5.1 to D-5.5 (Details of Gas Distribution System) of the subject petition.

Please note that the changes has been made in amounts and KMs in sub heads of Table # D-1.1 "Gas Distribution System- GDS" without effecting the total GDS value. The revised Gas Distribution System Table # D-1.1 is also enclosed as Annexure 'A'.

This is for your information and necessary action, please.



Yours faithfully,

Syed Fasihuddin Fawad
General Manager (RA)
(For Managing Director)

C.C: Mr. M Asif, Deputy Executive Director (Gas)-OGRA

SUI SOUTHERN GAS COMPANY LIMITED

CAPITALIZATION DETAILSDISTRIBUTION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	FY 2018-19 ERR		FY 2018-19 ERR	
		KMs	Gross Capitalization (Rs. Million)	KMs	Gross Capitalization (Rs. Million)
1	20" Dia x 5 Kms Landhi Main & C-Station Main Loop	5.0	139.406		
2	08" Dia x 15 Kms Supply Main Hala				
3	16" Dia 6.393 KM Augmentation Gas Line Including Installation of TBS at QPL to Mastung Road Quetta.				
4	16" Dia Loop Line Reinforcement Work at Quetta, Mid City Area.				
5	20" Dia X 7 KM Desalination Plant to Dolman Mall, Clifton				
6	12" Dia X 5 KM Old City Augmentation Main				
7	20" Dia X 1.5 KM Interlink of Shershah Main & SITE Gas Turbine Main				
8	16" Dia X 7 KM Interlink of Pasmic Main & Landhi Main Link				
9	Normal Expansion	1,087.9	4,046.262	1,201.2	5,080.737
10	New Towns & Villages	388.6	1,177.600	231.2	757.952
11	Rehabilitation Mains & Services (UFG Reduction Program)	455.1	850.800	763.1	914.600
15	Meters (UFG Reduction Program)		1,576.178		1,744.800
15	UFG Reduction Program - Segmentation		236.000		-
	Total - GDS	1,936.6	8,026.246	2,195.6	8,498.089

SUI SOUTHERN GAS COMPANY LIMITED GAS DISTRIBUTION SYSTEM - ADDITION SUMMARY OF ACTIVITIES									
Table # D-5									
S/No.	Description	ERR FY 2019-20	FY 2019-20 Estimated Revenue Requirement Petition				Rs. In Million		
			Need Assessment	Cost Benefit Analysis	% age Completion (if applicable)	Date of Commissioning			
1	Rehabilitation Mains and Services UFG Control Program	914.6							
2	Segmentation	-							
	Sub Total: UFG Control Program (A)	914.6							
3	Laying of Distribution Mains including services-Existing Areas and DDC	3,496.5	-	-	-	Ongoing	Ongoing		Ongoing
4	Installation of New Connections (meters)	1,220.6	-	-	-	Ongoing	Ongoing		Ongoing
5	Replacement /Repair of Undersized Meters	1,744.8	-	-	-	Ongoing	Ongoing		Ongoing
6	Modems, Installation of EVC, Filter Separators,Etc	169.2	-	-	-	Ongoing	Ongoing		Ongoing
7	Construction of CMSs, TBSSs, and TRSs, / Cathodic Protection	194.5				Ongoing	Ongoing		Ongoing
8	New Towns	758.0	-	-	-	Ongoing	Ongoing		Ongoing
	Sub Total: Normal (B)	7,583.5							
	Total GDS Other Than Major Project: (A+B)	8,498.1	Please refer Table: D-3.2						
9	8 " dia x 15 KM Supply Main Hala	0.0							
	Sub Total: Major Distribution Projects	0.0							
	Total Distribution System	8,498.1	-	-	-	-	-	-	-

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

[illegible]

SUI SOUTHERN GAS COMPANY LIMITED													Table # D-5.2		
DISTRIBUTION DEVELOPMENT															
ADDITIONAL METERS (NEW CONNECTIONS)															
Physical Target (Regionwise)															
Connection Category	FY 2018-19 Petition						FY 2019-20 Petition								
	Karachi		Sindh		Balochistan		Karachi		Sindh		Balochistan				
	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	161	794,595	40	794,595	7	794,595	145	1,240,738	18	1,243,109	4	1,203,250			
Commercaill	1,450	113,025	560	113,025	195	113,025	700	115,270	118	115,130	260	115,308			
Domestic-Normal	60,582	2,706	42,000	4,173	13,000	4,173	60,000	3,711	52,000	5,433	12,000	5,433			
Total	62,193	-	42,600	-	13,202	-	60,845		52,136		12,264				
New Connections - Cost Details															
Region	FY 2018-19 Petition			FY 2019-20 Petition											
	Units	Rs. Million	Region	Units	Rs. Million	Region									
Karachi	62,193	456.0	Karachi	60,845	483.3										
Sindh	42,600	270.3	Sindh	52,136	318.5										
Balochistan	13,202	81.9	Balochistan	12,264	100.0										
	Total			Total											
		808.2		Total											
		117,995		Total											
		253.0		DDC											
		1,061.2		Total											
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Table # D-5.3

SUI SOUTHERN GAS COMPANY LIMITED
DISTRIBUTION DEVELOPMENT

REPLACEMENT OF INDUSTRIAL AND COMMERCIAL METERS

Connection Category	FY 2018-19 ERR						FY 2019-20 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	30	794,595.0	20	794,595	10	794,595	312.0	1,240,737	39	1,241,646	9	1,203,222
Commercial	2,600	108,101	580	108,101	320	108,101	1,670.0	115,270	282	115,130	620	115,308
Domestic	225,000	2,706	72,000	4,173	27,000	4,173	225,000	2,488	72,000	4,465	27,000	4,465
Total	227,630	-	72,600	-	27,330	-		1,358,495				1,322,995

Meter Repair & Replacement Cost Details

Region	FY 2018-19 ERR			Region	FY 2019-20 ERR		
	Units	Rs. Million			Units	Rs. Million	
Karachi	227630	913.8	Karachi		226,982	1,139.4	
Sindh	72600	379.0	Sindh		72,321	402.4	
Balochistan	27330	155.2	Balochistan		27,629	202.9	
Total	327,560	1,448.0		Total	326,932	1,744.8	
		-		DDC		-	
Total		1,448.0		Total			1,744.8

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

Table: D-5.4

Description	FY 2018-19 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		
<u>New Addition</u>											
TB Stations	15	1.2	18.0	7	1.9	13.4	4	1.2	4.8		
PR Stations	30	0.2	6.0	8	0.3	2.4	60	0.3	18.0		
Total New Addition	45	-	24.0	15	-	15.8	64	-	22.8		
<u>Modification</u>											
TB Stations	15	1.1	16.0	10	1.1	10.7	4	1.1	4.3		
TR Stations				10	1.0	10.0					
Total Modification	15	-	16.0	20	-	20.6	4	-	4.3		
Grand Total	60	-	40.0	35	-	36.4	68	-	27.1		
	Total cost for FY 2018-19										103.4

FY 2019-20 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	3.0	45.0	6	3.0	18.0	10	3.0	30.0			
25	0.3	7.5	8	0.3	2.4	60	0.3	18.0			
40	-	52.5	14	-	20.4	70	-	48.0			
15	2.2	33.5	14	2.2	31.2	4	2.2	8.9			
15	-	33.5	14	-	31.2	4	-	8.9			
55	-	86.0	28	-	51.6	74	-	56.9			
Total cost for FY 2019-20										194.5	

Table: D-5.4

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**NEW TOWNS AND VILLAGES
ERR PETITION 2019-20**

**D-5.5
SINDH**

Sr. No.	Name of Town / Village	No. of Villages	Total Mahas (Kms)	No. of Consumers	Cost Rs. In Million			Cost Rs. In Million			Cost Rs. In Million						
					Total Cost		Total	FY 2018-19		Total	FY 2019-20 Petition		Total				
					Grant	Own		A	B		Over & Above to be Adj against Grant	Own		Total			
ERR 2018-19:																	
1	Ghulam Abbas Pirzado	1	0.37	2	0.94	0.11	1.05	0.94	0.11	1.05	0.94	0.11	1.05				
2	Shadi Ismail Shaikh, Kirar Bhaunrio, Dirya Khan Leghari, Badal Ahmedani, Bux Khoso, Kamal Faqir, Haji Allahdad	19	22.86	335	72.94	18.09	91.03	72.94	18.09	91.03	72.94	18.09	91.03				
3	Ali Muhammad Mullah, Haji Usman Soomro & Haji Kasim Soomro	3	7.81	176	10.71	9.50	20.21	10.71	9.50	20.21	10.71	9.50	20.21				
4	Haji Allah Bux Shaikh	1	0.55	6	1.09	0.32	1.42	1.09	0.32	1.42	1.09	0.32	1.42				
5	Allah Rakhio Khaskheli	1	0.50	15	0.45	0.81	1.26	0.45	0.81	1.26	0.45	0.81	1.26				
6	Chodhio Wagho, Sobho Kalloro, Arbab Waghio, Punjal Waghio & Nawab K. Waghio	5	10.05	152	18.25	8.21	26.46	18.25	8.21	26.46	18.25	8.21	26.46				
7	Dodo Khan Maree	1	4.27	48	8.01	2.59	10.60	8.01	2.59	10.60	8.01	2.59	10.60				
8	Mian Lal	1	5.77	152	7.35	8.21	15.56	7.35	8.21	15.56	7.35	8.21	15.56				
9	Abtal	1	11.50	27	56.23	1.46	57.69	56.23	1.46	57.69	56.23	1.46	57.69				
10	Mareebad	1	2.40	50	4.10	2.70	6.80	4.10	2.70	6.80	4.10	2.70	6.80				
11	Ali Pur Post Office Kakar	1	7.50	68	17.95	3.67	21.62	17.95	3.67	21.62	17.95	3.67	21.62				
12	Rahib Mahar	3	6.10	117	13.41	6.32	19.72	13.41	6.32	19.72	13.41	6.32	19.72				
13	Muhammad Umar Rajpar	1	0.35	18	0.07	0.97	1.05	0.07	0.97	1.05	0.07	0.97	1.05				
14	Abdul Khaliq Rajper	1	8.14	39	32.97	2.11	35.07	32.97	2.11	35.07	32.97	2.11	35.07				
15	Raj Malkani	1	22.40	36	109.89	1.94	111.84	109.89	1.94	111.84	109.89	1.94	111.84				
16	Abul Mirbahr, Misri Dharejo, Nabi Lakho, Razi Lakho, Mevo Leghari, Jamaluddin Soomro, Rajo Kolachi, Jeewan Kolachi, Sonharo Kolachi, Mubarak Kolachi, Mohbat Gadani, Sohrab Khoso, Feroz Kolachi, Nasir Khoso, Jaffer	20	24.05	514	46.47	27.76	74.22	46.47	27.76	74.22	46.47	27.76	74.22				
17	Chhachh Jahan Khan, Ladihyoon & Shah Aqeeq	3	49.04	1489	83.00	80.41	163.40	83.00	80.41	163.40	83.00	80.41	163.40				
18	Wali Muhammad Brohi	1	1.33	89	0.00	2.48	2.48	0.00	2.48	2.48	0.00	2.48	2.48				
19	Muhammad Mithan Rahokro	1	1.10	21	1.27	1.13	2.40	1.27	1.13	2.40	1.27	1.13	2.40				
20	Ghulam Rasool Lakho	1	1.95	11	6.72	0.59	7.32	6.72	0.59	7.32	6.72	0.59	7.32				
21	Abdullah Pusio/Pusio	1	7.25	72	16.89	3.89	20.77	16.89	3.89	20.77	16.89	3.89	20.77				
22	Soomar Memon	1	5.40	30	15.57	1.62	17.19	15.57	1.62	17.19	15.57	1.62	17.19				
23	Unar Sand, Mall Khan Thebo, Mitho Mijrat & Ibrahim Shah	4	23.47	683	21.99	36.88	58.87	21.99	36.88	58.87	21.99	36.88	58.87				
24	Ghulam Ali Solangi	1	0.30	5	0.65	0.27	0.92	0.65	0.27	0.92	0.65	0.27	0.92				
25	Basooro	1	1.90	55	0.37	2.97	3.34	0.37	2.97	3.34	0.37	2.97	3.34				

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**NEW TOWNS AND VILLAGES
ERR PETITION 2019-20**

**D-5.5
SINDH**

Sr. 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 Million		
					Total Cost		Total	FY 2018-19		Total	Expected to be Capitalized FY 2019-20 Petition		Kms
					Grant	Own		A	B	(A+B)	Over & Above to be Adj against Grant	Own	
7	Dahar Goth, Motayo Chachar & Esso Tanvri	3	16.336	781	11.957	42.174	54.131	11.957	42.174	54.131	11.957	42.174	16.336
8	Ali Bux Shahani	1	1.764	9	3.848	0.486	4.334	3.848	0.486	4.334	3.848	0.486	1.764
9	Haji Baradi Kalhoro	1	0.666	12	1.368	0.648	2.016	1.368	0.648	2.016	1.368	0.648	0.666
10	Ali Muhammad Soomro, Sijawal Dhandhoo & Rajib Dhandhoo	3	3.498	64	5.888	3.456	9.344	5.888	3.456	9.344	5.888	3.456	3.498
11	Bagh Channa	1	1.850	64	0.767	3.456	4.223	0.767	3.456	4.223	0.767	3.456	1.850
12	Hashim Charan	1	2.356	48	6.096	2.592	8.688	6.096	2.592	8.688	6.096	2.592	2.356
13	Saleemabad	1	0.480	2	1.544	0.108	1.652	1.544	0.108	1.652	1.544	0.108	0.480
14	Aliabad (Mian Nazar Mohammed)	1	1.494	5	3.643	0.270	3.913	3.643	0.270	3.913	3.643	0.270	1.494
15	Allah Jawayo Bhutto	1	2.174	42	4.494	2.268	6.762	4.494	2.268	6.762	4.494	2.268	2.174
16	Abdul Rehman Khan Chacher	1	0.204	1	1.132	0.054	1.186	1.132	0.054	1.186	1.132	0.054	0.204
17	Meero Chachar, Mithan Mahar, Wasti Inayat Shah, Wasti Qutubdin Slah & Sakhi Muhammad Younus Chachar	5	23.061	460	49.628	24.840	74.468	49.628	24.840	74.468	49.628	24.840	23.061
18	Sach Dino Kalwar	1	2.975	42	7.184	2.268	9.452	7.184	2.268	9.452	7.184	2.268	2.975
19	Abbas Sanghar	1	0.800	24	0.868	1.296	2.164	0.868	1.296	2.164	0.868	1.296	0.800
20	Suleman Charan	1	0.800	18	1.192	0.972	2.164	1.192	0.972	2.164	1.192	0.972	0.800
21	Rais Yar Mohammed Sawand	1	0.900	1	2.348	0.054	2.402	2.348	0.054	2.402	2.348	0.054	0.900
22	Salah Baghel, Mukhtiar Arain, Muhammad Bux Behram & Gello Noonari	4	15.102	632	29.359	34.128	63.487	29.359	34.128	63.487	29.359	34.128	15.102
23	Khair Muhammad Babar	1	3.600	42	9.832	2.268	12.100	9.832	2.268	12.100	9.832	2.268	3.600
24	Manthar Shoro	1	8.226	932	0.000	50.328	19.665	0.000	50.328	19.665	0.000	50.328	8.226
25	Ameer Bakhish Khand	1	1.300	12	2.706	0.648	3.354	2.706	0.648	3.354	2.706	0.648	1.300
26	Rahim Balal	1	0.390	1	1.575	0.054	1.629	1.575	0.054	1.629	1.575	0.054	0.390
27	Sabzal Khan Mari	1	1.100	66	0.000	3.564	3.143	0.000	3.564	3.143	0.000	3.564	1.100
28	Choudhry Nazir Ahmed Gill	1	0.600	6	1.452	0.324	1.776	1.452	0.324	1.776	1.452	0.324	0.600
29	Arif Qadir / Waqar Qadir	1	0.610	6	1.475	0.324	1.799	1.475	0.324	1.799	1.475	0.324	0.610
30	Khalid Junjo	1	1.000	7	2.262	0.378	2.640	2.262	0.378	2.640	2.262	0.378	1.000
31	Hazar Khan Pahore	1	1.000	24	1.715	1.296	3.011	1.715	1.296	3.011	1.715	1.296	1.000

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**NEW TOWNS AND VILLAGES
ERR PETITION 2019-20**

**D-5.5
SINDH**

Sr. 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 Million			
					Total Cost		Total	FY 2018-19		Total	Expected to be Capitalized		Kms	
					Grant	Own		Over & Above to be Adj against Grant	Own		Total			
					A	B						(A+B)		
32	Wanyal Thebo	1	6.612	157	13.951	8.478	22.429				13.951	8.478	22.429	6.612
33	Ali Muhammad Parhiyar	1	3.000	48	7.296	2.592	9.888				7.296	2.592	9.888	3.000
34	Abdul Shakoor Memon	1	0.528	18	0.874	0.972	1.846				0.874	0.972	1.846	0.528
35	Ghulam Nabi Shah & Lakhat	2	3.534	93	7.037	5.022	12.059				7.037	5.022	12.059	3.534
36	Ahmed Lashari, Soomar Tharani & Haji Khan Jiskani	3	3.150	36	8.856	1.944	10.800				8.856	1.944	10.800	3.150
37	Ali Nawaz Bagrani	1	3.552	58	10.014	3.132	13.146				10.014	3.132	13.146	3.552
38	Ali Bux Chaudio	1	2.820	79	2.143	4.266	6.409				2.143	4.266	6.409	2.820
39	Khokhar	1	5.562	73	15.707	3.942	19.649				15.707	3.942	19.649	5.562
40	Rao Dilmeer Khan	1	1.446	24	3.506	1.296	4.802				3.506	1.296	4.802	1.446
41	Haji Hashim Sahito	1	3.606	76	7.331	4.104	11.435				7.331	4.104	11.435	3.606
42	Karimabad & Inayatullah Qureshi	2	3.360	256	0.000	13.824	9.552				0.000	13.824	9.552	3.360
43	Mubhat Bhurgri	1	6.198	159	12.643	8.586	21.229				12.643	8.586	21.229	6.198
44	Wangai Maheri	1	5.262	107	13.422	5.778	19.200				13.422	5.778	19.200	5.262
45	Tando Ghulam Ali Town (Distribution Mains)	1	24.33	2027	0.000	109.458	60.662				0.000	109.458	64.232	24.330
46	Khan Muhammad Chandio	1	0.462	6	1.450	0.324	1.774				1.450	0.324	1.774	0.462
47	Saeed Pur	1	2.196	48	2.633	2.592	5.225				2.633	2.592	5.225	2.196
48	Yousif Ji Mian	1	3.9	157	0.000	8.478	8.478				0.000	8.478	8.478	3.900
49	Qaim Din Sahito	1	0.702	27	0.000	1.458	1.458				0.000	1.458	1.458	0.702
50	Ghulam Sarwer Pirzado & Jatan Ji Kiri	2	3.768	113	0.000	6.102	6.102				0.000	6.102	6.102	3.768
	Sind Total	175	527	14,151	952	760	1,627	628.7	331.1	959.9	322.9	428.8	671.1	211.9

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D-5.5
BALUCHISTAN

Sr. No.	Name of Town / Village	No. of Villages	Total Males (Kms)	No. of Consumers	COST IN RS. MILLION										ERR FY 2019-20 Petition		
					Total Cost				Grant	Own	B	Total (A+B)	Grant	Own	Total	Kms	
					A	B	Total	Total									
ERR 2018-19																	
1	Haji Dad Kareem Kili Jamal Abad Noshki	1	14.718	328	0.000	43.230	41.470	0.000	43.230	41.470							
2	Kili Asyaban Noshki	1	4.050	80	0.000	10.955	10.955	0.000	10.955	10.955							
3	Mir Shair Dil Khun Kili Fiqrian Noshki	1	4.524	158	0.000	10.706	10.706	0.000	10.706	10.706							
4	Kili Ata Mohammed	1	1.800	66	0.000	4.358	4.358	0.000	4.358	4.358							
5	Syed M.Shah & Others Res Of Ahmed Shah Colony Zikria Kili Qazi Abad Shomali	1	2.742	104	0.000	8.658	8.658	0.000	8.658	8.658							
6	Kili Ziarat	1	1.698	12	4.599	3.240	7.839	4.599	3.240	7.839							
7	Kili Station	1	7.800	42	12.289	11.340	23.629	12.289	11.340	23.629							
8	Kili Mohammed Hassni	1	1.002	9	0.902	2.430	3.332	0.902	2.430	3.332							
9	Kili Hayat Abad	1	0.714	9	(0.188)	2.430	2.242	(0.188)	2.430	2.242							
10	Kili Issa Khail	1	1.098	28	0.000	3.399	3.399	0.000	3.399	3.399							
11	Kili Shah Noor	1	0.852	3	1.145	0.810	1.955	1.145	0.810	1.955							
12	Kili Saragzai	1	0.060	2	0.062	0.540	0.602	0.062	0.540	0.602							
13	Kili H. Ashraf Kakar	1	0.246	4	0.000	0.920	0.920	0.000	0.920	0.920							
14	Kili Haji Atta Muhammad Sur Pul	1	0.306	1	0.752	0.270	1.022	0.752	0.270	1.022							
15	Kili Haji Quli Muhammad Tor Kach	1	0.150	1	0.486	0.270	0.756	0.486	0.270	0.756							
16	Hafiz Naepehullah Kili Kach	1	0.090	1	0.384	0.270	0.654	0.384	0.270	0.654							
17	Haji Jaluddin Kili Sar angzai	1	0.180	2	0.267	0.540	0.807	0.267	0.540	0.807							
18	Kili Maik Samad	1	0.210	2	0.319	0.540	0.859	0.319	0.540	0.859							
19	Kili Haj Khan Barozai	1	0.762	18	0.000	1.801	1.801	0.000	1.801	1.801							
20	Murad Khan Kili Shamoza	1	0.180	1	0.537	0.270	0.807	0.537	0.270	0.807							
21	Imam-E-Masjid House Kili Bezi	1	0.120	1	0.435	0.270	0.705	0.435	0.270	0.705							
22	Kili Salman Kach	1	0.180	1	0.537	0.270	0.807	0.537	0.270	0.807							
23	Kili Bilal Kach	1	6.102	7	16.383	1.890	18.273	16.383	1.890	18.273							
24	Haji Zahir Kili Barozai	1	0.246	1	0.650	0.270	0.920	0.650	0.270	0.920							
25	Kili Sigt And Uch Sagi	1	4.854	33	5.364	8.910	14.274	5.364	8.910	14.274							
26	Kili Shahdrazai	1	1.962	31	0.000	5.218	5.218	0.000	5.218	5.218							
27	Narullah Khan	1	1.680	12	0.704	3.240	3.944	0.704	3.240	3.944							
28	Kili Attakzai	1	2.016	18	0.069	4.860	4.929	0.069	4.860	4.929							
29	Kili Medadzai	1	1.896	21	0.183	5.670	5.853	0.183	5.670	5.853							
30	Kili Shangbo Kach Road	1	9.804	33	18.674	8.910	27.584	18.674	8.910	27.584							
31	Azeem Abad Jamali National High Way D.M. Jamali	1	1.842	30	0.409	8.100	8.509	0.409	8.100	8.509							
ERR 2019-20																	
1	Jallave Gandan (Kili Karimabad)	1	8.064	97	8.803	26.190	34.993										
2	Guwandan (Kili Sardar Dinar Khun Kurd,Kili Rais Ghulam Nabi & Kili Wakiid Bux Kurd Dasht	3	11.300	68	33.477	18.360	51.837										
Balochistan Total																	
		35	93.2	1,224	107.2	199.1	304.6	65.0	154.6	217.8	73.9	42.3	44.6	86.8	19.4		
Sind Total																	
		175	527	14,151	951.6	759.9	1,627.4	628.7	331.1	959.9	314.7	322.9	428.8	671.1	211.9		
Grand Total																	
		210	619.8	15,375	1,058.9	959.1	1,932.0	693.7	485.7	1,177.6	388.6	365.2	473.4	758.0	231.2		