

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Construction Equipment	Construction Equipment	Pipe Cutters(1/8" to 2")	4	120,000	4	120,000		
	Construction Equipment Total		4	120,000	4	120,000		
Tools & Equipment	Loose Tools	Industrial Metering tool kit	2	300,000	2	300,000		
	Loose Tools Total		2	300,000	2	300,000		
	Grand Total		6	420,000	6	420,000		

Part-II

00000088

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Tools & Equipment	Loose Tools	Fitter Tool Kit	30	2,000,000	30	2,000,000		
Tools & Equipment	Loose Tools	Fitter Tool Kit	30	2,000,000	30	2,000,000		
	Loose Tools Total		60	4,000,000	60	4,000,000	-	-
	Grand Total		60	4,000,000	60	4,000,000	-	-

00000089

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Construction Equipment	Construction Equipment	Angle Grinders	3	150,000	3	150,000		
Construction Equipment	Construction Equipment	Concrete Cutter	1	100,000	1	100,000		
	Construction Equipment Total		4	250,000	4	250,000		
Plant & Machinery	Sundry Equipment	Meter Shifting Trolley	2	200,000	2	200,000		
	Sundry Equipment Total		2	200,000	2	200,000		
Plant & Machinery	Testing/Survey Equipment	Digital Vernier Caliper	1	100,000	1	100,000		
	Testing/Survey Equipment Total		1	100,000	1	100,000		
Tools & Equipment	Loose Tools	Loos Tools	Lot	500,000	Lot	500,000		
	Loose Tools Total		-	500,000	-	500,000		
	Grand Total		7	1,050,000	7	1,050,000		

00000090

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Construction Equipment	Construction Equipment	Water Pump(Heavy duty)	1	241,787	1	241,787		
Construction Equipment	Construction Equipment	Electric jack Hammer machine heavy	3	900,000	3	900,000		
Construction Equipment	Construction Equipment	Grinder	5	500,000	5	500,000		
Construction Equipment	Construction Equipment	Cold Cutter 4", 6", 8" dia pipe.	2	100,000	2	100,000		
	Construction Equipment Total		11	1,741,787	11	1,741,787	-	-
Furniture Fixture & Office	Office Equipment	Scanner for DLMS	1	1,860,000	1	1,860,000		
Furniture Fixture & Office	Office Equipment	A3 Colour Printer	1	450,000	1	450,000		
	Office Equipment Total		2	2,310,000	2	2,310,000	-	-
Plant & Machinery	Sundry Equipment	Measuring wheel	2	25,000	2	25,000		
	Sundry Equipment Total		2	25,000	2	25,000	-	-
	Grand Total		15	4,076,787	15	4,076,787	-	-

00000091

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Furniture Fixture & Office/Security Equipment	Office Equipment	Amonia Plotter	1	400,000	1	400,000		
	Office Equipment Total		1	400,000	1	400,000		
Plant & Machinery	Testing/Survey Equipment	Line Locator	1	500,000	1	500,000		
	Testing/Survey Equipment Total		1	500,000	1	500,000		
	Grand Total		2	900,000	2	900,000		

00000092

244

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Construction Equipment	Construction Equipment	Grinder	5	200,000		200,000		
		Construction Equipment Total	5	200,000	5	200,000	-	-
	Grand Total		5	200,000	5	200,000	-	-

00000093

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Construction Equipment	Construction Equipment	Grinder	5	250,000	5	250,000		
Construction Equipment	Construction Equipment	shell cutter 4 dia	2	400,000	2	400,000		
Construction Equipment	Construction Equipment	shell cutter 6 dia	1	800,000	1	800,000		
Construction Equipment	Construction Equipment	Concrete Cutter	1	500,000	1	500,000		
	Construction Equipment Total		9	1,950,000	9	1,950,000	-	-
Furniture Fixture & Office/Security Equipment	Office Equipment	Plotter	1	1,000,000	1	1,000,000		
Furniture Fixture & Office/Security Equipment	Office Equipment	Almunia Printing Machine	1	1,600,000	1	1,600,000		
Furniture Fixture & Office/Security Equipment	Office Equipment	Drawing Cutter	1	100,000	1	100,000		
	Office Equipment Total		3	2,700,000	3	2,700,000	-	-
Plant & Machinery	Workshop Plant & Equipment	Ratcher wranch flange spreader	1	32,000	1	32,000		
	Workshop Plant & Equipment Total		1	32,000	1	32,000	-	-
	Grand Total		13	4,682,000	13	4,682,000	-	-

00000094

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Plant & Machinery	Electrical Equipment	Rechargeable Emergency Light	5	45,000	5	45,000		
Plant & Machinery	Electrical Equipment	Flood / Search Lights (500V)	5	135,000	5	135,000		
	Electrical Equipment Total		10	180,000	10	180,000		
Tools & Equipment	Loose Tools	Loose Tools	Lot	200,000	Lot	200,000		
	Loose Tools Total		-	200,000	-	200,000		
	Grand Total		10	380,000	10	380,000		

00000095

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Construction Equipment	Construction Equipment	Concrete Cutter	1	200,000	1	200,000	-	-
Construction Equipment	Construction Equipment	Angle Grinder	6	150,000	6	150,000	-	-
	Construction Equipment Total		7	350,000	7	350,000	-	-
	Grand Total		7	350,000	7	350,000	-	-

00000096

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Construction Equipment	Construction Equipment	Grinder Machines	8	240,000	8	240,000		
	Construction Equipment Total		8	240,000	8	240,000	-	-
	Grand Total		8	240,000	8	240,000	-	-

00000097

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Construction Equipment	Construction Equipment	Grinder Machines	20	75,000	20	75,000		
Construction Equipment	Construction Equipment	Jake Hammer	1	50,000	1	50,000		
Construction Equipment	Construction Equipment	Dewatering Pump 2"	1	35,000	1	35,000		
Construction Equipment	Construction Equipment	Road & Concrete Cutter	1	150,000	1	150,000		
	Construction Equipment Total		23	310,000	23	310,000	-	-
	Grand Total		23	310,000	23	310,000	-	-

00000098

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
IT/MIS Equipment	IT/MIS Equipment/Softwares	High Resolution Satellite Imagery	-	20,000,000	-	20,000,000		
IT/MIS Equipment	IT/MIS Equipment/Softwares	Gas Calc Software upgrade to Enterprise License	-	250,000	-	250,000		
	IT/MIS Equipment/Softwares Total		-	20,250,000	-	20,250,000	-	-
Plant & Machinery	Testing/Survey Equipment	Survey Drone	1	500,000	1	500,000		
	Testing/Survey Equipment Total		1	500,000	1	500,000	-	-
Telecommunication Equip	Telecom Equipment	Steno Set	1	40,000	1	40,000		
Telecommunication Equip	Telecom Equipment	Fax Machine	1	100,000	1	100,000		
	Telecom Equipment Total		2	140,000	2	140,000	-	-
	Grand Total		3	20,890,000	3	20,890,000	-	-

00000099

251

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Construction Equipment	Construction Equipment	Road Cutting Machine	10	4,000,000	10	4,000,000		
Construction Equipment	Construction Equipment	Night working light (complete Set)	10	10,000,000	10	10,000,000		
Construction Equipment	Construction Equipment	wheel Excavator with hydraulic	5	82,500,000	5	82,500,000		
Construction Equipment	Construction Equipment	Bevelling Machine	10	2,500,000	10	2,500,000		
Construction Equipment	Construction Equipment	Truck Crane	4	86,100,000	4	86,100,000		
Construction Equipment	Construction Equipment	Generator (10-15 KVA)	10	3,000,000	10	3,000,000		
	Construction Equipment Total		49	188,100,000	49	188,100,000	-	-
Tools & Equipment	Loose Tools	Tools (Spanner Sets etc.)	20	8,000,000	20	8,000,000		
	Loose Tools Total		20	8,000,000	20	8,000,000	-	-
	Grand Total		69	196,100,000	69	196,100,000	-	-

00000100

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Plant & Machinery	Testing/Survey Equipment	Thread Inspection Gauge (Ring & Plug Type) for 3/4" size BSPT Threads	4	600,000	4	600,000		
	Testing/Survey Equipment Total		4	600,000	4	600,000	-	-
	Grand Total		4	600,000	4	600,000	-	-

00000101

253

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Plant & Machinery	Testing/Survey Equipment	Laser Temperature Measure Gauge	10	300,000	10	300,000		
Plant & Machinery	Testing/Survey Equipment	Holiday Detector	10	4,000,000	10	4,000,000		
Plant & Machinery	Testing/Survey Equipment	Pit Gauge (Digital)	10	800,000	10	800,000		
Plant & Machinery	Testing/Survey Equipment	Tong Tester	15	225,000	15	225,000		
Plant & Machinery	Testing/Survey Equipment	Vernier Caliper (Digital)	15	112,500	15	112,500		
Plant & Machinery	Testing/Survey Equipment	High-Low Gauge	10	150,000	10	150,000		
Plant & Machinery	Testing/Survey Equipment	Multi Purpose Gauge	20	400,000	20	400,000		
Plant & Machinery	Testing/Survey Equipment	Surface Profile Gauge (Digital)	10	1,500,000	10	1,500,000		
	Testing/Survey Equipment Total		100	7,487,500	100	7,487,500	-	-
	Grand Total		100	7,487,500	100	7,487,500	-	-

00000102

HEAD OFFICE SUMMARY

Main Category	Sub Category	Total PKR (Proposal FY 2019-20)	Admin. Deptt.	Store	Training & Development	IT & MIS	HSE	Civil Department	Pool Budget
Plant & Machinery	Power Plant & Equipment	100,000,000							
	Workshop Plant & Equipment	4,410,000							
	C.P. Equipment	-		4,100,000				310,000	
	Metering Equipment	-							
	Testing/Survey Equipment	3,901,000							
	Electrical Equipment	43,530,000	3,230,000				2,500,000	1,401,000	
	Electrical & Gas Appliances & Fittings	45,000,000			2,000,000	25,000,000		15,300,000	
	Fire Fighting Equipment	36,000,000				18,000,000			25,000,000
	Sundry Equipment	15,310,000		175,000		6,000,000	30,000,000		
Sub Total		248,151,000	3,230,000	4,275,000	2,000,000	49,000,000	47,515,000	17,131,000	125,000,000
Transmission System	Rehabilitation/Upgradation of Transmission System	-							
	Rehabilitation/upgradations of Sales Meter Station	-							
Sub Total									
Tools & Equipment	Loose Tools	-							
Sub Total									
Civil Construction	Civil Construction & Fixture Regional Office Building	252,200,000						52,200,000	200,000,000
Sub Total		252,200,000						52,200,000	200,000,000
Compression Equipment	Compressor Station Equipment	-							
Sub Total									
Construction Equipment	Construction Equipment	-							
Sub Total									
Furniture Fixture & Office/Security Equipment	Furniture and Fixtures	40,000,000							40,000,000
	Office Equipment	25,000,000							25,000,000
	Security Equipment	10,000,000							10,000,000
Sub Total		75,000,000							75,000,000
Land for SMSs	Land for ROW	-							
	Land for Offices	-							
Sub Total									
Telecommunication Equipment	Telecom Equipment	2,700,000	2,700,000						
Sub Total		2,700,000	2,700,000						
IT/MIS Equipment	IT/MIS Equipment/Softwares	350,900,000				350,900,000			
	Computer Hardware (Company wide requirement)	111,756,410				111,756,410			
Sub Total		462,656,410				462,656,410			
Motor vehicles	Transportation	300,000,000							300,000,000
Sub Total									
Distribution & Development	Distribution & Development	-							
Grand Total		1,340,707,410	5,930,000	4,275,000	2,000,000	511,656,410	47,515,000	69,331,000	700,000,000

00000103

255

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Required Items		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Plant & Machinery	Electrical Equipment	Water Pump Replacement & relocation plus new bore (Abbottabad Region)	1	2,500,000			1	2,500,000
Plant & Machinery	Electrical Equipment	Water Pump	4	60,000			4	60,000
Plant & Machinery	Electrical Equipment	De watering Pump	1	100,000	1	100,000		
Plant & Machinery	Electrical Equipment	Flood Lights LED for Polcs - (Peshawar Region)	10	500,000	10	500,000		
Plant & Machinery	Electrical Equipment	Drill Machine	1	30,000			1	30,000
Plant & Machinery	Electrical Equipment	Donkey Pump (double ampeller)	2	40,000	2	40,000		
	Electrical Equipment Total		19	3,230,000	13	640,000	6	2,590,000
Telecommunication Equipment	Telecom Equipment	Telephone Exchange card and telephone sets (Abbottabad Region)	1	500,000	1	500,000		
Telecommunication Equipment	Telecom Equipment	Telephone Exchange/ PABX complete system with all installation (Mardan Region)	1	2,200,000	1	2,200,000		
	Telecom Equipment Total		2	2,700,000	2	2,700,000	-	-
	Grand Total		21	5,930,000	15	3,340,000	6	2,590,000

00000104

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Plant & Machinery	Sundry Equipment	Weighing Scale 200 KGs capacity	2	140,000	2	140,000		
Plant & Machinery	Sundry Equipment	Hand Wheel Barrow	4	20,000	4	20,000		
Plant & Machinery	Sundry Equipment	Electric Grass Cutting machine	1	15,000	1	15,000		
	Sundry Equipment Total		7	175,000	7	175,000	-	-
Plant & Machinery	Workshop Plant & Equipment	Fork Lifter 05 ton Capacity	1	4,000,000	1	4,000,000		
Plant & Machinery	Workshop Plant & Equipment	Hydraulic Lifter	2	100,000	2	100,000		
	Workshop Plant & Equipment Total		3	4,100,000	3	4,100,000	-	-
	Grand Total		10	4,275,000	10	4,275,000	-	-

00000105

Amount in Rs.

Budget Main Category	Budget Sub Category	Total Requirement		Addition		Replacement	
		Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Plant & Machinery	Electrical & Gas Appliances & Fit DC Invertor	10	2,000,000	10	2,000,000		
	Electrical & Gas Appliances & Fittings Total	10	2,000,000	10	2,000,000	-	-
	Grand Total	10	2,000,000	10	2,000,000	-	-

00000106

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
IT/MIS Equipment/Software	IT/MIS Equipment/ HHUs, Line Printers, Personal/Desktop Computers (25% Depreciation Rate)	HHU	347	40,000,000			347	40,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ HHUs, Line Printers, Personal/Desktop Computers (25% Depreciation Rate)	Tape Library	1	12,000,000			1	12,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ HHUs, Line Printers, Personal/Desktop Computers (25% Depreciation Rate)	VTL Appliance for Backups upgrade	1	20,000,000			1	20,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ HHUs, Line Printers, Personal/Desktop Computers (25% Depreciation Rate)	Layer 3 Switches	349	72,000,000			349	72,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Layer 2 Switches with 10G Uplink Support	35	14,000,000	35	14,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Routers for Regions and Sub-Area Offices	40	11,000,000	40	11,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Wireless Controller	50	12,500,000	50	12,500,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Wireless AP	10	15,000,000	10	15,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Wireless Bridges	150	9,750,000	150	9,750,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Network Cabinets 9U	10	750,000	10	750,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Network Cabinets 22U	100	1,500,000	100	1,500,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	x86 Servers (Hyper Converge) with 4 Nodes	25	1,000,000	25	1,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Integrated Cooling Rack (all in 1 solution)	4	24,000,000			4	24,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Unified Storage	6	9,000,000	6	9,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Database Server Machine / Engineered System	1	25,000,000			1	25,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Cabinet for Storage backup cartridges for Archiving purpose.	1	70,000,000	1	70,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	License for Lotus Domino Server, Notes Clients and Antivirus for Regions	1	4,000,000	1	4,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Virtualization, Operating System and Antivirus for Virtualization for Regions	1	197,500,000	428	148,500,000	5	49,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Microsoft Office Licences	1	8,400,000	1	8,400,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	MDM Software	1	12,250,000	1	12,250,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Monitoring Software (Server, Storage, DataCenter)	100	4,550,000	100	4,550,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	ERP user Licences	50	1,200,000	50	1,200,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Precision AC (HO & Manga)	1	15,000,000	1	15,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Stabilizer KVA (Servo Motor)	1	40,000,000	1	40,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Modular UPS	154	81,400,000	154	81,400,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Fire Suppression solution in Manga DRC and VESDA System requirement in Power Room	3	18,000,000	1	6,000,000	2	12,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Fire Fighting Equipment	100	1,000,000	100	1,000,000		
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Fire Fighting Equipment	2	24,000,000			2	24,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Fire Fighting Equipment	102	25,000,000	100	1,000,000	2	24,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Fire Fighting Equipment	1	6,000,000			1	6,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	Fire Fighting Equipment	1	6,000,000			1	6,000,000
IT/MIS Equipment/Software	IT/MIS Equipment/ Server Machines, Network Equipment, Industrial Printers (15% Depreciation Rate)	PC, UPS, Laptop, Printer, Scanners Etc (Companywide Requirements)	2,812	111,756,410	1,131	58,043,590	1,681	53,712,821

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
	IT/MIS Equipment/HHUs, Line Printers, Personal/Desktop Computers (25% Depreciation Rate)		2,812	111,756,410	1,131	58,043,590	1,681	53,712,821
	IT/MIS Equipment/Desktop, Network Printer, Laptop, Scanners, UPS for PCs (33% Depreciation Rate) Total		3,854	511,656,410	1,814	294,943,590	2,040	216,712,821
	Grand Total							

00000108

Amount in Rs.

Budget Main Category	Budget Sub-Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Plant & Machinery	Fire Fighting Equipments	Smoke Detection and Fire Alarm System	3	7,000,000	3	7,000,000		
Plant & Machinery	Fire Fighting Equipments	Stand Alone (Battery operated) Smoke / Heat Detectors	-	500,000	-	500,000		
Plant & Machinery	Fire Fighting Equipments	Fire Hydrant System	-	20,000,000	-	20,000,000		
Plant & Machinery	Fire Fighting Equipments	Fire Extinguishers	-	2,500,000	-	2,500,000		
	Fire Fighting Equipments Total		3	30,000,000	3	30,000,000	-	-
Plant & Machinery	Sundry Equipment	Reverse Osmosis (RO) Plant / Water Filtration Plant / Dispensers	-	10,000,000		10,000,000		
Plant & Machinery	Sundry Equipment	Height and Weight Machine		15,000	1	15,000		
Plant & Machinery	Sundry Equipment	Establishment of Wellness Club at Faisalabad-T	-	5,000,000	-	5,000,000		
	Sundry Equipment Total		-	15,015,000	1	15,015,000	-	-
Plant & Machinery	Testing/Survey Equipment	Flue Gas Analyzer	1	2,000,000	1	2,000,000		
Plant & Machinery	Testing/Survey Equipment	Occupational health equipment	-	500,000	-	500,000		
	Testing/Survey Equipment Total		1	2,500,000	1	2,500,000	-	-
	Grand Total		4	47,515,000	5	47,515,000	-	-

00000109

Amount in Rs.

Budget Main Category	Budget Sub-Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Civil Construction	Civil Construction & Fixture	Supply, Installation and Commissioning of 5 No. Lifts, complete in all respect at Head Office Building.	01 Job	52,200,000	01 Job	52,200,000		
Plant & Machinery	Civil Construction & Fixture Total		-	52,200,000	-	52,200,000	-	-
Plant & Machinery	Electrical Equipment	Multistage Feed Water Pump	02 No.	300,000	02 No.	300,000		
Plant & Machinery	Electrical Equipment	Direct Fired Chiller Plant at HQ(T) Fsd	01 No.	15,000,000	01 No.	15,000,000		
Plant & Machinery	Electrical Equipment Total		-	15,300,000	-	15,300,000	-	-
Plant & Machinery	Sundry Equipment	Cylinder for Oxygen Gas	02 No.	40,000	02 No.	40,000		
Plant & Machinery	Sundry Equipment	Cylinder for Nitrogen Gas	02 No.	40,000	02 No.	40,000		
Plant & Machinery	Sundry Equipment	Cylinder for LPG Gas	02 No.	40,000	02 No.	40,000		
Plant & Machinery	Sundry Equipment Total		-	120,000	-	120,000	-	-
Plant & Machinery	Testing/Survey Equipment	Temperature Meter	02 No.	100,000	02 No.	100,000		
Plant & Machinery	Testing/Survey Equipment	PH Meter	03 No.	75,000	03 No.	75,000		
Plant & Machinery	Testing/Survey Equipment	Infrared Temperature Gun/Torch	02 No.	10,000	02 No.	10,000		
Plant & Machinery	Testing/Survey Equipment	Pressure Gauge Mini-fold	04 No.	36,000	04 No.	36,000		
Plant & Machinery	Testing/Survey Equipment	Pressure gauge (0-150 psi) 4"	08 No.	120,000	08 No.	120,000		
Plant & Machinery	Testing/Survey Equipment	Temperature gauge (0C-650C) 4"	02 No.	30,000	02 No.	30,000		
Plant & Machinery	Testing/Survey Equipment	Temperature gauge (0C-150C) 4"	02 No.	30,000	02 No.	30,000		
Plant & Machinery	Testing/Survey Equipment	Thermal Imager	01 No.	1,000,000	01 No.	1,000,000		
Plant & Machinery	Testing/Survey Equipment Total		-	1,401,000	-	1,401,000	-	-
Plant & Machinery	Workshop Plant & Equipment	Portable Welding Plant (Single Phase)	02 No.	100,000	02 No.	100,000		
Plant & Machinery	Workshop Plant & Equipment	Hydraulic Jack (1 Ton)	02 No.	10,000	02 No.	10,000		
Plant & Machinery	Workshop Plant & Equipment	Angle Grinder 4"	02 No.	80,000	02 No.	80,000		
Plant & Machinery	Workshop Plant & Equipment	Tool Trolley	04 No.	120,000	04 No.	120,000		
Plant & Machinery	Workshop Plant & Equipment Total		-	310,000	-	310,000	-	-
	Grand Total		-	69,331,000	-	69,331,000	-	-

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POOL BUDGET

Appendix- D

Amount in Rs.

Budget Main Category	Budget Sub Category	Description	Total Requirement		Addition		Replacement	
			Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
Civil Construction	Civil Construction & Fixture	Company wide requirements	-	200,000,000	-	200,000,000	-	-
	Civil Construction & Fixture Total		-	200,000,000	-	200,000,000	-	-
Plant & Machinery	Power Plant & Equipment	Generators etc.	-	100,000,000	-	100,000,000	-	-
	Power Plant & Equipment Total		-	100,000,000	-	100,000,000	-	-
Furniture Fixture & Office/Security Equipment	Furniture and Fixtures	Furniture & Fixture etc. (Company wide requirements (provided by Civil department)	-	40,000,000	-	40,000,000	-	-
	Furniture and Fixtures Total		-	40,000,000	-	40,000,000	-	-
Furniture Fixture & Office/Security Equipment	Office Equipment	Photocopy machines/Fax machines/Security Equipment etc	-	25,000,000	-	25,000,000	-	-
	Office Equipment Total		-	25,000,000	-	25,000,000	-	-
Furniture Fixture & Office/Security Equipment	Security Equipment	CCTV Camera/Walkthrough Gates/Metal Detectors etc	-	10,000,000	-	10,000,000	-	-
	Security Equipment Total		-	10,000,000	-	10,000,000	-	-
Plant & Machinery	Electrical & Gas Appliances & Fittings	Air Conditioner/Air Cooler/Water equipment/Deep Freezer etc.	-	25,000,000	-	25,000,000	-	-
	Electrical & Gas Appliances & Fittings Total		-	25,000,000	-	25,000,000	-	-
Motor vehicles	Transportation	Replacement/New Operational/Allocated Vehicles	-	300,000,000	-	300,000,000	-	-
	Transportation Total		-	300,000,000	-	300,000,000	-	-
	Grand Total		-	700,000,000	-	700,000,000	-	-

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SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

FROM: Company Secretary	TO: Chief Financial Officer
Ref. CA/BOD-1/5048	February 25, 2019

Confidential

ESTIMATED REVENUE REQUIREMENT (ERR) FY 2019-20

The Board of Directors at its 519th meeting held on February 25, 2019 considered this agenda item alongwith recommendation of the Finance and Procurement Committee given at its 301st meeting held on February 25, 2019 and accorded approval for the Estimated Revenue Requirements for the Financial Year 2019-20 for submission of petition to OGRA subject to completion of all procedural/ codal, legal and financial prerequisites and strictly in accordance with law as follows:-

Revenue Budget

Rupees in Million

Already Approved Projects:

a. KMI Implementation plan (2017-22)	1,401
--------------------------------------	-------

Present Revenue Expenditure:

b. Transmission and Distribution cost charged to P&L Account	47,011
--	--------

c. Related Capitalization	4,832
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Total Revenue Expenditure Approved	53,244
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Capital Budget

Already approved Projects:

a. Compression Overhauling Project (2016-21)	365
--	-----

b. KMI Implementation Plan (2017-22)	627
--------------------------------------	-----

Present Capital Expenditure:

c. Distribution Development	39,763
-----------------------------	--------

d. Regular Capital Expenditure	2,253
--------------------------------	-------

Total Capital Expenditure Approved	43,008
---	---------------

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However, the Board of Directors in line with recommendations of the Finance & Procurement Committee allowed provisioning of 300,000 domestic connections during financial year 2019-20 instead of 600,000 while the balance 300,000 connections shall be installed by the Company subject to provision of compensation by OGRA on account of related UFG and any other adverse impact on profitability of the Company. Similarly, the laying of distribution mains (8,000 Kms amounting to Rs. 20,000 million) to new towns and villages (against GoP directives- Federal & Provincial) allowed by the Board subject to the aforementioned caveats.

You are requested to please take further action in this regard. The detailed minutes are under preparation and would be communicated in due course.


Company Secretary

cc: MD

01/282204

PB-LHR-C736E78AB674B028

Non-Judicial

Rs 1,200/-

Description	: POWER OF ATTORNEY - 48(bb)(a)
First Party / Principal	: SOI NORTHERN GAS PIPE LINES LTD [36302-0431766-5]
Second Party / Attorney Holder	: CH LIAQAT ALI [34101-2616650-9]
Agent	: M RAFIQUE GUJAR [35202-2494274-7]
Stamp Duty Paid by	: CH LIAQAT ALI [34101-2616650-9]
Issue Date	: 22-Feb-2017, 01:02:32 PM
Paid Through Challan	: 2017AB16E4C9905E
Amount in Words	: One Thousand Two Hundred Rupees Only

Please Write Below This Line

GENERAL POWER OF ATTORNEY

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

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


MANAGING DIRECTOR
CNIC No.


DIRECTOR
CNIC No.



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E-STAMP
CONTINUATION SHEET

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

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

MANAGING DIRECTOR
CNIC No.

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

DIRECTOR
CNIC No.

WITNESSES:

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

Muhammad Tabir Rashid
Law Officer
Sui Northern Gas Pipelines Limited
21-Kashmir Road, Lahore.

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Adhi Gas

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CFO
SNGPL No. 3461
Date 6/3/19

7A

SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

FROM: Company Secretary	TO: CFO/SGM (D)North/South
Ref. CA/BOD-1/ 6068	March 06, 2019

CONFIDENTIAL

EXTRACT FROM THE DRAFT MINUTES OF THE 519TH MEETING OF THE BOARD OF DIRECTORS HELD ON FEBRUARY 25, 2019

This is in continuation of our earlier memo No. CA/BOD-1/5090 dated February 28, 2019.

We reproduce below extract from the draft minutes of the 519th meeting of the Board of Directors, held on February 25, 2019 for your information and necessary action, as well as for immediate response to the queries raised by the worthy Directors, if any, please.

5923 ITEM-G REQUIREMENT OF ADDITIONAL BUDGET UTILIZATION OF ADDITIONAL GAS FROM ADHI GAS FIELD IN RAWALPINDI/ ISLAMABAD REGIONS

- 7.1 Mirza Mahmood Ahmad, Director and Chairman of the Finance and Procurement Committee explained this item of the Agenda and recommendations of the Finance and Procurement Committee on the same to the members.
- 7.2 After due deliberation and in accordance with the recommendations of the F&PC given at its 298th meeting held on November 20, 2018, the Board of Directors accorded approval to the laying of 16" dia x 28 KM supply main for consumption of additional gas from Adhi Gas Field based on the Managing Director's certification that the line shall not remain unutilized, subject to OGRA's approval and subject to completion of all codal/procedural, legal and financial pre-requisites and strictly in accordance with law. The Board of Directors also allowed the Management for filing of petition for additional budget of Rs.588 million (Rupees five hundred eighty eight million) with OGRA under the head "System Augmentation" for carrying out the aforesaid work.

The draft minutes are pending clearance with the Chairman Board of Directors.

GM(F)

MD

6/3/19

FINANCE DEPARTMENT	
Diary No.	1524
	07 MAR 2019
CA(F)-I	
CA(F)-II	

Pl. done

7/3/19

ASMT

can be 8/7

[Signature]
Company Secretary

00000118

SUI NORTHERN GAS PIPELINES LIMITED**AGENDA FOR FINANCE/PROCUREMENT COMMITTEE MEETING - ITEM-**

Dated: September 18, 2018

**REQUIREMENT OF ADDITIONAL BUDGET
UTILIZATION OF ADDITIONAL GAS FROM ADHI GAS FIELD
IN RAWALPINDI / ISLAMABAD REGIONS**

M/s Pakistan Petroleum Limited (PPL) is in the process of providing additional gas from Adhi Gas Field into our system. For utilization of additional gas from Adhi Gas Field, laying of 10" dia x 11.5 Km Adhi-Sukho Transmission loop line alongwith upgradation of Adhi Valve Assembly, upgradation of SMS Bara Kahu and construction of new SMSs for Nilore and Kallar Syedan at an estimated cost of Rs. 380.092 million (Rupees Three Hundred Eighty Million Ninety Two Thousand) have already been approved from Board of Directors as well as OGRA.

Similarly, Board of Directors has also accorded approval for filing of petition with OGRA for additional budget of Rs. 509.41 million (Rupees Five Hundred Nine Million, Four Hundred and Ten Thousand) in ERR FY 2018-19, under the head "System Augmentation" for laying of following supply mains required for above purpose.

Sr. No.	Description	Length (Km)	Cost (Rs. Million)
01	8" dia Distribution supply main from Athal Chwok, Barakshu to Attaturk Avenue, G-6, Islamabad	9.30	77.00
02	16" dia Distribution supply main from downstream of SMS Rawat to Soon Bridge along GT Road	10.90	195.00
03	10" dia Distribution supply main from existing 10" dia supply main at Military College of Signals (MCS) to Adyala village via Adyala Road	17.65	204.00
04	10" dia Distribution supply main from existing 10" dia supply main at Ammar Chowk to Tipu Road top hookup with existing 12" dia supply main	2.20	31.00
05	FBS of capacity 150 MCF/Hr near Nilore Model School, for supply main at Sr. No. 01.	-	7.41
Total Cost			509.41

In continuation of above, following supply main has also been recommended by P&D department for effective utilization of additional gas from Adhi Gas Field in Islamabad and Rawalpindi Regions:

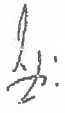
Sr. No.	Description	Length (Km)	Cost (Rs. Million)
01	16" dia Distribution supply main from D/S of SMS Rawat to Jinnah Avenue Near Centaurus, Islamabad	28	588

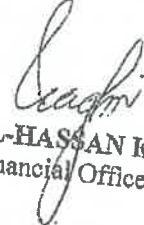
The OGRA has allowed budget of Rs. 1207 million (Rupees Twelve Hundred and Seven Million) under "System Augmentation" head against Budget FY 2018-19, which will be required for pending / new augmentation cases during current fiscal year and cannot cater this additional requirement of Rs. 588 Million (Rupees Five Hundred Eighty Eight Million).

Due to current liquidity position, mainly owing to non-increase of sales prices by GOP for last many years, Company may not be in a position to finance the proposed expenditure in view of the fact that neither the cash flows generated by the Company are sufficient to cater for any additional expenditures (over and above the already approved budgets) nor the Company may be able to raise borrowing to avoid breach of existing loan covenants. In view of the foregoing, the financing plan of this project will be evaluated after the approval of the Project by OGRA.

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Keeping in view the above, the Management hereby recommends to the Finance/Procurement Committee of Directors to recommend to the Board of Directors to allow filing of petition with OGRA for additional budget of Rs. 588 Million (Rupees Five Hundred Eighty Eight Million) in RERR (Review of Estimated Revenue Requirement) FY 2018-19, under the head "System Augmentation" for carrying out above work.


(MAHMOOD ZIA AHMAD)
Sr. General Manager (Dist-North/South)


(SAGHIR-UL-HASSAN KHAN)
Chief Financial Officer


(AMJAD LATIF)
MANAGING DIRECTOR



SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

FROM: Company Secretary	TO: GM (Sales)
Ref. CA/BOD-I/ 5093	February 28, 2019
Thru: SOM (BD) 1/3	
<u>CONFIDENTIAL</u>	

**EXTRACT FROM THE DRAFT MINUTES OF THE 519TH MEETING
OF THE BOARD OF DIRECTORS HELD ON FEBRUARY 25, 2019**

We reproduce below extract from the draft minutes of the 519th meeting of the Board of Directors, held on February 25, 2019 for your information and necessary action, as well as for immediate response to the queries raised by the worthy Directors, if any, please.

5932 ITEM-P LNG TRANSACTION - EXPENSES FOR LEGAL ASSISTANCE

- 16.1 Mirza Mahmood Ahmad, Director and Chairman of the Finance and Procurement Committee explained this item of the Agenda alongwith recommendations of the Finance and Procurement Committee on the same to the members.
- 16.2 After due deliberation and in accordance with the recommendations of the F&PC given at its 301st meeting held on February 25, 2019, the Board of Directors accorded approval for an additional budget of Rs. 5 million to meet the expenses for commercial and legal assistance in the LNG transaction.

5934 ITEM-R ANY OTHER BUSINESS WITH THE PERMISSION OF THE CHAIRMAN

i) OUTSOURCING OF ELECTRONIC ARCHIVING OF SALES RECORD

- 18.1 Mirza Mahmood Ahmad, Director explained this item of the Agenda along with the recommendations of the Finance and Procurement Committee on the same to the members.
- 18.2 After due deliberation and in accordance with the recommendations of the F&PC given at its 301st meeting held on February 25, 2019, the Board of Directors accorded approval for outsourcing of electronic archiving record of Sales

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Department at an estimated cost of Rs.247 million subject to fulfillment of PPRA Rules and all codal/ procedural, legal and financial prerequisites and strictly according to the law. The Board also accorded approval to the draft RFP documents appended in the Agenda.

The draft minutes are pending clearance with the Chairman Board of Directors.

Rajesh Kumar
Company Secretary

cc: MD



SUI NORTHERN GAS PIPELINES LIMITED

Note to Directors

From: Managing Director

Note No. _____

February 18, 2018

AGENDA FOR ____ FINANCE & PROCUREMENT COMMITTEE OF THE BOD

OUTSOURCING OF ELECTRONIC ARCHIVING OF SALES RECORD

Sales Department is primarily entrusted with processing of gas connection which involves a number of documents against each case. Presently approximately 6.5 million consumers are active while about 3 million are at various stages of the cycle. In addition to that, reconnections, change of name, change of tariff, free gas facility, OGRA/ Wafaqi Mohtasib/ Legal cases etc also involve essential documentation.

The existing record is not in a good condition due to decay, termite, loss in shifting, inadequate space and various other factors. The traceability of manual record is another issue. Due to non availability of record the Company may have to face a number of legal and procedural implications which may include but not limited to filing of recovery suits/ court cases, OGRA petitions, monitoring of contractual obligations such as sanctioned load, etc. Submission of information based on physical record to higher forums such as OGRA, Wafaqi Mohtasib, Ministry of Energy, etc may witness failure.

In order to improve the preservation and traceability of the record, Document Archiving System (DAS) was launched by Sales Department and industrial record of approx. 3,500 consumers has been archived. However, major volumes of record pertain to Domestic and Commercial consumers estimated to the tune of 6.4 million consumers, archiving of which requires availability of extensive financial and human resources which cannot be made locally available for this one time extensive exercise. The skill of the available resources cannot match with the outside firms having specialized staff, advanced equipment & softwares, data handling skills, etc. Accordingly as an alternate, probability of outsourcing of data archiving was considered. Leading services providers were approached to share their methodology.

Crux of the in-depth discussions regarding mechanism to archive the data is as follows:

- The volume of record is estimated to the tune of 40 million documents accumulate, while approximately 4 million documents are added each year.
- Summary of the **estimated costs** are as follows:
 - Cost of scanning and image indexing @ Rs. 4 per image for estimated 40 Million papers : Rs. 160 Million
 - Software purchase cost: Rs. 10 Million
 - Computer Infrastructure Enhancement and Storage (30 terabytes approx) & back up for disaster recovery: Rs. 60 Million
 - Training Cost: Rs 1 Million

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- To coordinate and monitor the process, Sales Department will require Record Officer in each region and HO on contract basis. To monitor the software of archiving system and to provide functional support IT Department will require additional two (2) executives and four (4) subordinates. Total HR Cost for both Departments is estimated as Rs. 16 Million. Break up is at Flag-A.

Sr.	Description	Estimated Cost (Rs. Million)
1	Scanning, image indexing and archiving @ Rs. 4 per image.	160
2	Archiving software	10
3	Software Training of IT and Sales Staff	1
4	IT Infrastructure, networking, storage and Back up for disaster recovery, etc	60
5	HR Cost	16
Total		247

Annual Recurring cost of Archiving software, IT infrastructure and Storage is estimated to be 20 % per annum.

It is hereby recommended by the Management to Finance & Procurement Committee to further recommend the BOD to accord approval of outsourcing of Electronic Data Archiving of accumulated record of Sales Department. Draft RFP documents are attached for approval, please.

Submitted.


(SHAHID MAQSUD)
GENERAL MANAGER (SALES)


(SYED JAWAD NASEEM)
SR. GENERAL MANAGER (BD)


(AMER TUFAIL)
MANAGING DIRECTOR

HR Cost of Proposed Data Archiving Project

Department	Requirement	Estimated Rate	Total for 24 months
Sales	16 Officers on Contract	Rs. 30,000	11,520,000
IT/MIS	2 Executives on Contract	Rs. 50,000	2,400,000
	4 Subordinates	Rs. 20,000	1,920,000
Total Estimated Cost			15,840,000



SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

FROM: Company Secretary	TO: CFO/SGM (ES) GM (P&D)
Ref. CA/BOD-1/ 5089	February 28, 2019

CONFIDENTIAL

EXTRACT FROM THE DRAFT MINUTES OF THE 519TH MEETING OF THE BOARD OF DIRECTORS HELD ON FEBRUARY 25, 2019

We reproduce below extract from the draft minutes of the 519th meeting of the Board of Directors, held on February 25, 2019 for your information and necessary action, as well as for immediate response to the queries raised by the worthy Directors, if any, please.

5924 ITEM-H ENHANCEMENT IN THE BUDGET OF 10" Ø DAUDKHEL - MIANWALI TRANSMISSION LINE

- 8.1 Mirza Mahmood Ahmad, Director and Chairman of the Finance and Procurement Committee explained this item of the Agenda and recommendations of the Finance and Procurement Committee on the same to the members of the Board.
- 8.2 After due deliberation and in accordance with the recommendations of the F&PC given at its 300th meeting held on January 09, 2019, the Board of Directors accorded approval to the enhancement of Rs. 40 million (Rupees Forty Million) in the already approved budget of 10" Ø Daudkhel – Mianwali transmission pipeline subject to OGRA's approval and subject to the fulfillment of PPRA Rules and all procedural/codal, legal and financial prerequisites and strictly in accordance with law. The Board noted that after this enhancement the total budget of this line shall be Rs.341 million.

The draft minutes are pending clearance with the Chairman Board of Directors.

Atiqul Haq
Company Secretary

cc: MD

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CERTIFIED TRUE COPY OF RESOLUTION PASSED AT
THE 519TH MEETING OF THE BOARD OF DIRECTORS
HELD ON FEBRUARY 25, 2019

After due deliberation and in accordance with the recommendations of the F&PC given at its 300th meeting held on January 09, 2019, the Board of Directors accorded approval to the enhancement of Rs. 40 million (Rupees Forty Million) in the already approved budget of 10" Ø Daudkhel – Mianwali transmission pipeline subject to OGRA's approval and subject to the fulfillment of PPRA Rules and all procedural/codal, legal and financial prerequisites and strictly in accordance with law. The Board noted that after this enhancement the total budget of this line shall be Rs.341 million.



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

ENHANCEMENT IN THE BUDGET OF 10" Ø DAUDKHEL-MIANWALI
TRANSMISSION LINE

In order to receive additional gas supplies from northern sources and to attain operational flexibility of Bi-directional gas flows in northern region to counter unforeseen situations, Infrastructure Development Project (IDP) was approved by BOD as well as OGRA in the year 2012 comprising of 24"Ø x 54.30 KM Kohat-Dhakni loopline, 24" Ø x 50.41 KM Dhakni- FCI loop line, 24" Ø x 40.10 KM FCI- Gali Jagir loop line and 10" Ø x 38 KM Daudkhel- Mianwali transmission pipeline alongwith modification of FC-1, CC1 and CC3 compressor stations. BOD / OGRA approvals are attached as Annexure-A.

10" dia Daudkhel - Mianwali transmission line being part of the above mentioned IDP is to be laid from uplifting of existing 10" dia pipeline from FC1- Gali Jagir segment after the commissioning of 24" dia pipeline in this segment.

EPC (Engineering, Procurement and Construction) activities on the aforementioned Infrastructure Development Project were initiated soon after obtaining approval from BOD and OGRA. However, construction activities on above mentioned 24"Ø x 54.30 KM Kohat-Dhakni loopline segment and 24" Ø x 50.41 KM Dhakni-FC1 loop line segment were forcefully stopped by locals of enroute villages backed by their political elders demanding gas supplies to their villages due to which construction of 19.41 KM & 28.6 KM pipeline portions in these segments are still pending despite continuous strenuous efforts being made by the company in coordination with respective district managements to resolve these community issues. However, negotiations are now at an advance stage and these community issues shall be resolved soon which shall pave the way for completion/commissioning of aforementioned loop line segments soon.

All the aforementioned community issues have not only caused prolonged delay in commissioning of 24"Ø loopline segments but has also delayed uplifting of existing 2 No. 10" Ø pipelines from FC1-Gali Jagir segment which was to be undertaken after complete commissioning of these 24"Ø Kohat-Dhakni-FC1-Gali Jagir loop line segments. Therefore, due to non availability of uplifted line pipe as described above, it was not possible to commence the land acquisition/constructions works on 10"Ø Daudkhel-Mianwali approved pipeline. Meanwhile, the construction of Motorways traversing through Mianwali and Daudkhel under CPEC project were initiated by the Government of Pakistan in 2014. The route of these Motorways under CPEC Project coincided with 10"Ø Daudkhel-Mianwali proposed route at multiple locations which necessitated rerouting of the said transmission pipeline.

In view of above, detailed re-survey has been carried out to avoid multiple crossings of Motorways and by keeping the safe distance from the ROW of Motorways resulting in increase in length of 10"Ø Daudkhel - Mianwali approved pipeline from 38 KM to 50.70 KM. This additional pipe shall be made available from uplifting of 2 No. 10"Ø x 40.10 KM FC1-Gali Jagir transmission pipeline after confirming its integrity and as such no new line pipe shall be required. However, due to this increase in length, construction cost shall increase resulting in increase in total projected cost of 10"Ø Daudkhel - Mianwali approved pipeline from already approved Rs. 301 Million to Rs.341 Million.

The Map Showing revised route of 10"Ø Daudkhel - Mianwali approved pipeline is attached as Annexure-B while details of the revised cost estimates worked out for the revised route are attached as Annexure-C.

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

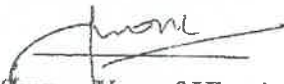
RECOMMENDATIONS:

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

- Enhancement in budget to the tune of Rs. 40 million (Rs. Forty million) in the already approved budget of 10"Ø Daudkhel - Mianwali transmission pipeline due to the afore mentioned reasons. After enhancement in the budget of this line as stated above the total budget of this line shall become Rs. 341 Million. Approval of OGRA will also be sought for this revision.


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


Ejaz Ahmed Ch.
Sr. General Manager (ES)


Saghir Ul Hassan Khan
Chief Financial Officer


(Amjad Latif)
Managing Director


COMPLIANCE CERTIFICATE

ENHANCEMENT IN THE BUDGET OF 10" Ø DAUDKHEL -MAINWALI
TRANSMISSION LINE

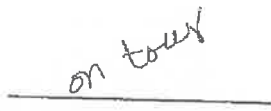
121

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


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


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

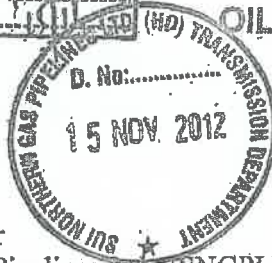

(Saghir Ul Hassan Khan)
Chief Financial Officer


(Amjad Latif)
Managing Director

00000130



RA DEPT.
SNGPL No: 15/11
Date: 15/11/12



OIL & GAS REGULATORY AUTHORITY

No. OGRA-9 (243)/12
10V 2012 14th November 2012

Managing Director
Sui Northern Gas Pipelines Ltd., (SNGPL),
21-Kashmir Road, P.O. Box 56, Lahore

Subject: **PETITION OF SNGPL FOR "INFRASTRUCTURE DEVELOPMENT PROJECT" TO RECEIVE ADDITIONAL NORTHERN GASES**

Dear Sir,

Please refer to SNGPL's letter No. RA-CP-001-12-12 dated 02-05-2012 on the above subject.

2. The Authority considered the petition in accordance with the provisions of NGRA (Licensing) Rules 2002, *vis-à-vis* information /justifications provided by SNGPL for prudence of investment against the projected gas load and cost on referred segment and approved the instant project for laying of said pipeline (24" x 54.3 km Kohat-Dakhni, 24" x 50.41km Dakhni-FC1, 24" x 40.1 km FCI-Gali Jagir, and 10"x 38km Daudkhel-Mianwali) at the capital cost of Rs 5,165 Million, in pursuance of Rule 20(xviii) of Natural Gas Licensing Rules (NGLR) 2002 subject to the following conditions:-
^{of Rule 20(xviii) of Natural Gas Licensing Rules (NGLR) 2002}

- a) The cost of the assets which have been approved shall be based on the actual costs as certified by the company's external auditors including a certificate to the effect that ^{actual costs} all materials have been procured in a competitive and transparent manner in line with PPRA rules, as well duly certified/ signed through MD SNGPL/CFO of the company.
- b) SNGPL will provide the comprehensive implementation plan of entire project highlighting milestones of important events including completion date.

3. This issues with the approval of the Authority please.

Yours faithfully,

(Signature)
Executive Director

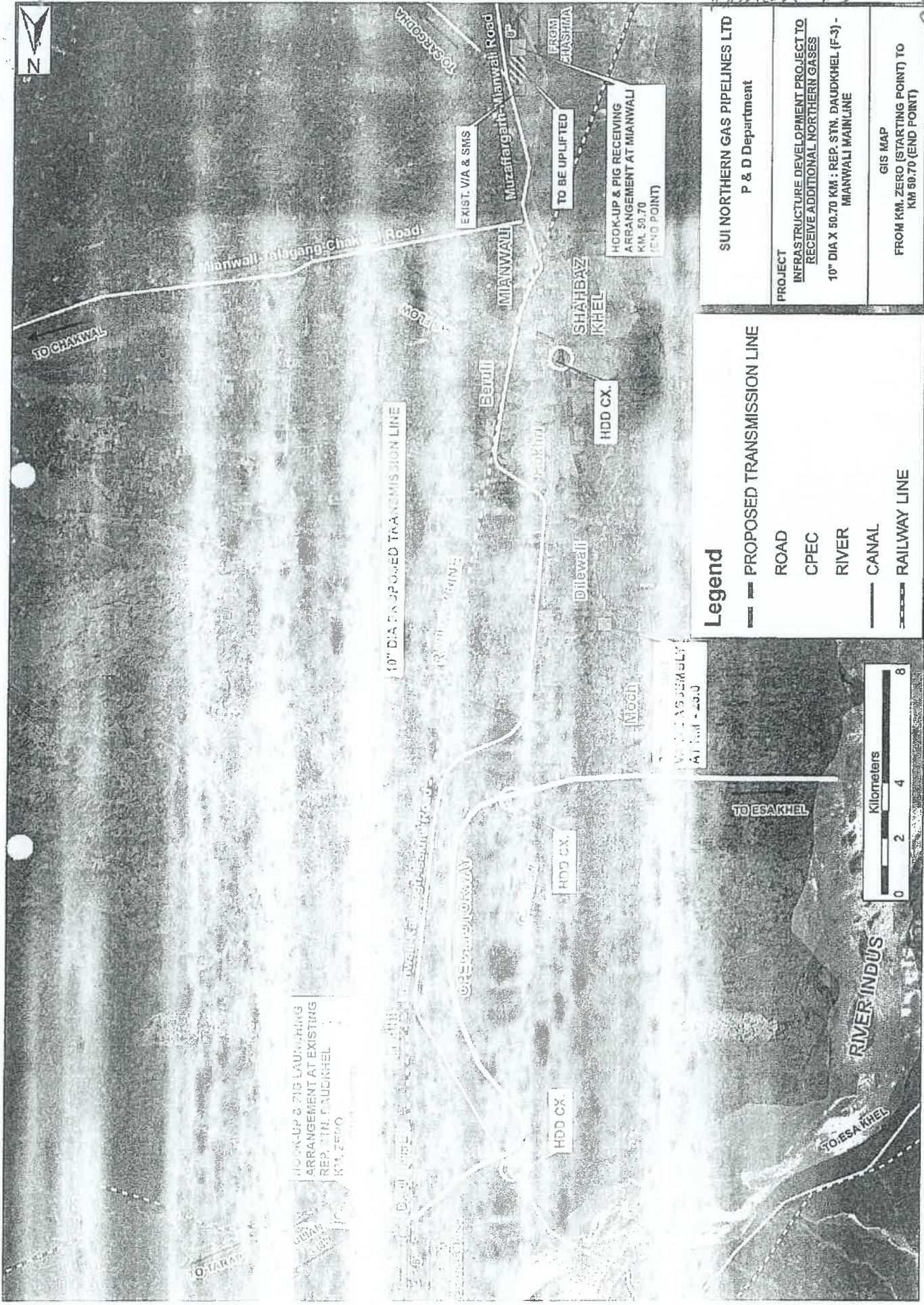
SGM(T)
Congrats. Northern Gas
project approved

Secretary, MPNR,
Government of Pakistan, Islamabad

Director to Advisor MPNR,
Government of Pakistan, Islamabad

cc: CFO

Chief (RA)



HOOK-UP & PIG LAUNCHING
ARRANGEMENT AT EXISTING
REP. STN. DAUDKHEL
KM. ZERO

10" DIA. PROPOSED TRANSMISSION LINE

TO CHAKWAL

HDD CX.

HDD CX.

HDD CX.

HOOK-UP & PIG RECEIVING
ARRANGEMENT AT MIANWALI
KM. 50.70
(END POINT)

TO BE UPLIFTED

EXIST. VIA & SMS

MIANWALI

Benuli

Dilewali

SHAHBAZ
KHEL

FROM
CHAKWAL

Muzaffargarh-Mianwali Road

Mianwali-Jalagang-Chakwal Road

TO ESAKHEL

RIVER INDUS

TO ESAKHEL

Legend

--- PROPOSED TRANSMISSION LINE

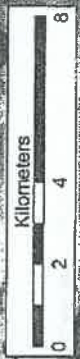
ROAD

CPEC

RIVER

CANAL

RAILWAY LINE



SUI NORTHERN GAS PIPELINES LTD
P & D Department

PROJECT

INFRASTRUCTURE DEVELOPMENT PROJECT TO
RECEIVE ADDITIONAL NORTHERN GASES
10" DIA X 50.70 KM : REP. STN. DAUDKHEL (F-3) -
MIANWALI MAINLINE

GIS MAP

FROM KM. ZERO (STARTING POINT) TO
KM 50.70 (END POINT)

00000132

Revised Budgeted Estimates
Laying of 10" dia x 50.70 KM 0.219" WT Transmission Line
Daudkhel- Mianwali

A Pipeline System

		(Million Rupees)
Description		Total
1	- Material	
	- Uplifted pipe	-
	- Coating Cost	40.400
	- Valves & Fittings	10.000
	- Joint Coating	10.500
	- Cathodic Protection	6.800
	- Transportation	9.500
	(a)	<u>77.200</u>
2	Construction Cost	99.000
3	Crop Compensation	22.147
4	Freehold Land	43.063
5	Major Crossings / Civil works	25.000
6	Security	8.000
7	Quality Assurance / HSE	7.900
8	Survey & Design	1.700
9	Camp set-up	20.000
10	Overheads	24.750
	(b)	<u>251.560</u>
	Contingencies (5 %)	<u>12.578</u>
	Total	<u><u>341.338</u></u>

Compressor 284

SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

FROM: Company Secretary	TO: SGM (Compression)
Ref. CA/BOD-1/ 7019	March 08, 2019

CONFIDENTIAL

**EXTRACT FROM THE DRAFT MINUTES OF THE 519TH MEETING
OF THE BOARD OF DIRECTORS HELD ON FEBRUARY 25, 2019**

This is in supersession of our earlier memo No. CA/BOD-1/5087 dated February 28, 2019 and memo No. CA/BOD-1/6050 dated March 5, 2019.

We reproduce below extract from the draft minutes of the 519th meeting of the Board of Directors, held on February 25, 2019 for your information and necessary action, as well as for immediate response to the queries raised by the worthy Directors, if any, please.

5927 ITEM-K REQUIREMENT OF FUNDS FOR RE-LOCATION OF GAS TURBINE COMPRESSOR PACKAGE AND SYSTEM AUGMENTATION AT COMPRESSOR STATION AC-6 (MULTAN) FOR TRANSMISSION OF 1350 MMCFD RLNG

- 11.1 Mirza Mahmood Ahmad, Director and Chairman of the Finance and Procurement Committee explained to the members that the Finance and Procurement Committee has advised the Management to rationalize the Agenda and present the same to F&PC, if required. The F&PC gave in principle approval and also advised the Management to expedite the re-location of gas turbine compressors at AC-6. The Board however, gave the budgetary approval this regard.

These draft minutes have been circulated amongst the Directors after clearance from the Chairman.


Company Secretary

cc: MD

00000134

MANAGING DIRECTOR

SGM (comp)

Approved as proposed.

All out efforts must be made to complete this project ASAP. Please give regular progress report.

Ref: C-15 / MC03)
February 25, 2019

**REQUEST FOR APPROVAL FOR
RE-LOCATION OF GAS TURBINE COMPRESSOR PACKAGE AND SYSTEM
AUGMENTATION AT COMPRESSOR STATION AC-6 (MULTAN) FOR
TRANSMISSION OF 1350 MMCFD RLNG**

Under LNG Infrastructure development project (Phase-I & II), Compression infrastructure has been augmented to receive and transport 1200 MMCFD RLNG in addition to existing indigenous gas supplies in our transmission network. Accordingly, Compression infrastructure was expanded at compressor stations AC1-X (Bhong), AC-4 (Uch Sharif) and AC-6 (Multan) to transport 1200 MMCFD RLNG and indigenous supplies downstream of compressor station AC-6.

Now, in order to transport additional 150 MMCFD RLNG supplies downstream of compressor station AC-6 (Multan) to be supplied to Punjab Power Plant (Tarimu) through 24" dia. Tarimu Power Pipeline, a detailed system analysis was carried out for transportation of this additional 150 MMCFD RLNG while also considering the depletion of indigenous gas supplies which has provided sufficient cushion to cater these additional flows. While comparing the anticipated and designed flow capacities of transmission & compression system, it is established that the additional 150 MMCFD flow may be accommodated at compressor stations AC1-X (Sui + LNG Sections) and AC-4 (Uch Sharif) without any further infrastructure expansion, however compression system augmentation is required at compressor station AC-6 (Multan) to process 1796 MMCFD flow against design maximum capacity of 1670 MMCFD. The detailed analysis of flow capacities and horsepower requirements are placed opposite as Annexure-A. Keeping in view the compression system analysis, following augmentation is required at compressor station AC-6 (Multan);

1. Relocation of one (1) Gas Turbine Compressor Package from compressor station AC1-X (Q) to existing compressor train at AC-6 (A-Section).
2. Re-staging of Compressor from 3-Stage C-Type to 2-Stage D-Type Staging in order to meet the required operational parameters and synchronize with existing system at AC-6.
3. Addition of one (1) No. Water Cooled Heat Exchanger at AC-6 (A-Section) in parallel with existing heat exchangers.

The agenda for these augmentation works has been presented in Finance Committee of Board in its 301st meeting held on 25.02.2019 wherein it was advised by the Finance Committee of Board that project cost to be reviewed and may be approved by the worthy Managing Director if it falls in his financial powers otherwise the agenda may be submitted in forthcoming meeting. The revised estimated cost for above system augmentation works is Rs. 97.543 Million (Copy placed opposite as Annexure-B). Since the BOD has principally approved this relocation, therefore kindly approve to cost as per instructions of the BOD to complete this time bound activity. It is therefore requested to kindly approve these augmentation works along with a capital outlay of Rs. 97.543 Million to transport 1350 MMCFD RLNG downstream of Compressor Station AC-6 (Multan).

Kindly approve.



MUHAMMAD ASLAM
SR. GENERAL MANAGER (COMPRESSION)

00000135

ANNEXURE-A

COMPRESSION SYSTEM ANALYSIS
TRANSMISSION OF 1350 MMCFD RLNG DOWNSTREAM OF AC-6

The design pressures and flows at these compressor stations were as follows:

TABLE-I: (Design Pressures & Flows)			
Compressor Station	U/S Pressure (Psig)	D/S Pressure (Psig)	Design Flow (MMCFD)
AC1-X (Q)	600	1102	340
AC1-X (Sui)	804	1100	1781
AC-4	905	1100	1950
AC-6	930	1170	1616

After induction of 150 MMCFD additional RLNG in transmission network, the anticipated flows through AC1-X, AC-4 & AC-6 against design capacities are tabulated hereunder;

TABLE-II				
Compressor Station	(All values in MMCFD)			
	RLNG Design Flow (1200 RLNG)	Maximum Flow Capacity	Anticipated Flow (1350 RLNG)	Capacity Deficit
AC1-X (Q)	340	400	227	+173
AC1-X (Sui)	1781	1950	1696	+254
AC-4	1950	1950	1907	+43
AC-6	1616	1670	1796	-126

The horsepower requirement at each of these compressor station to cater this additional flows, summarized in the table below:

TABLE-III					
Compressor Station	(All values in HP)				
	Available HP (Winters)	Available HP (Summers)	Net Available HP*	Required HP (1350 RLNG)	Power Deficit
AC1-X (Q)	21556	19064	15468	9780	+5688
AC1-X (Sui)	46458	41402	34073	32080	+1993
AC-4	41537	36735	29544	22659	+6885
AC-6	32306	28494	22514	23705	-1191

*Net Available Horsepower (HP) is calculated after accounting for atleast one mandatory stand-by compressor package at each station.

An analysis of auxiliary compression system is also summarized in table below along with compressor packages capacities viz-a-viz current compressor staging configuration and design pressure parameters:

TABLE-IV					
Compressor Station	(All values in MMCFD)				
	Gas Filtration Capacity	Gas Cooling Capacity	Compressors Capacity	Anticipated Flow (1350 RLNG)	Capacity Deficit
AC1-X (Q)	642	670	400	227	-173
AC1-X (Sui)	1985	2000	1950	1696	-254
AC-4	2101	2100	1950	1907	+143
AC-6	1826	1670	1670	1796	-126

00000136

ANNEXURE - BCOST SUMMARY

Relocation & Re-staging of One (1) Compressor Package & Revamping of DGC System
at Compressor Station AC-6 (Multan)

Sr. #	DESCRIPTION	Estimated Cost (Million Rs.)
1	Materials	
A)	Restaging Hardware for Booster Compressor for 01 No. compressor package T-47 relocated from AC1-X (Qadirpur) to AC-6	38.981
B)	Pipework / Valves / Fittings / Equipments	3.133
C)	Water Cooled Heat Exchanger & Lube Oil Coolers	32.571
	Sub-Total (I)	74.685
	Relocation Cost	
2	Civil Construction of pipe supports & Unit foundations, sheds, trenches, flooring, pavements, camp setup, consumables etc.	7.481
3	Construction Cost	11.206
4	Electrical Materials	2.883
5	Transportation of Material	0.750
6	Engg./Administrative Overheads.	0.539
	Sub-Total (II)	22.858
	GRAND TOTAL (I + II)	97.543

ANNEXURE - D**COST SUMMARY**

**Relocation & Re-staging of One (1) Compressor Package & Revamping of DGC System
at Compressor Station AC-6 (Multan)**

Sr. #	DESCRIPTION	Estimated Cost (Million Rs.)
1	Materials	
A)	Restaging Hardware for Booster Compressor for 01 No. compressor package T-47 relocated from AC1-X (Qadirpur) to AC-6	38.981
B)	Pipework / Valves / Fittings / Equipments	3.133
C)	Water Cooled Heat Exchanger & Lube Oil Coolers	32.571
	Sub-Total (I)	74.685
	Relocation Cost	
2	Civil Construction of pipe supports & Unit foundations, sheds, trenches, flooring, pavements, camp setup, consumables etc.	7.481
3	Construction Cost	11.206
4	Electrical Materials	2.883
5	Transportation of Material	0.750
6	Engg./Administrative Overheads.	0.539
	Sub-Total (II)	22.858
	GRAND TOTAL (I + II)	97.543

SPECIAL PROJECT

SUI NORTHERN GAS PIPELINES LIMITED

REQUEST FOR JOB NUMBER
(FOR INTERNAL USE ONLY)

SGM. (COMPRESSION)

No: 41340

Date: 18-03-19

11 MAR 2019

REF. NO: C - /M (

DATE: 28-02-2019

RELOCATION OF

COMPRESSOR PACKAGE

Please issue a job number for the following work.

Description: Relocation of Gas Turbine Compressor Package and System Augmentation at Compression Station AC-6 (Multan) for Transmission of 1350 MMCFD RLNG.

Sanction Ref:

Date of Completion: 30-06-2020

SR.	Details of Estimate	AMOUNT (Rs.)	REMARKS
1	Materials	82,165,839	Ref. Appendix - A
2	Direct Charges		
2.1	TA/HA for Executives & Staff	1,338,500	Ref. Appendix - B ✓
2.2	Wages (Skilled, Semi-skilled & unskilled)	5,184,872	Ref. Appendix - B ✓
2.3	Hiring of Services & Contract payments	2,800,000	Ref. Appendix - B ✓
2.4	Hiring of Plants, equipments & transport	-	Ref. Appendix - B ✓
2.5	Electrical Materials	2,882,500	
3	In-Direct Charges		
3.1	Plant, Equipment, Transport Operating Cost	1,882,247	Ref. Appendix - B ✓
3.2	Transportation of Materials	750,000	
4	Engineering / Administrative overheads	539,222	
	TOTAL ESTIMATE (Rs.)	97,543,180	

*Gen Compressor
PL-charge. Execution of
Job on TBP priority to
meet target*

SGM (COMPRESSION)

SGM (COMPRESSION)

JOB NUMBER
19/43/690049

Note:

- No work should be undertaken without a job number.
- Six copies prepared by the indenter, verified and passed by the General Manager and

umber

- Approval of the BOD in 519th meeting dt:08-03-2019 as following:
 - ✓ Re-location of Gas Turbine Compressor Package and System Augmentation at Compression Station at AC-6 (Multan) For Transmission of 1350 MMCFD RLNG;
 - ✓ Also advised the Management to expedite the re-location of gas turbine compressors at AC-6.
- The work on Project may be allowed to start immediately keeping in view the directions of the BOD, meanwhile the Project will be submitted by Compression department to OGRA for approval as stated in their memo reference SGMC-207/15(1) dated:05-03-2019

General Manager (Finance)

Chief Financial Officer

accounts.

Sanction Ref. No. TR/COMP/Sp. Ac-6

Dated: 18-MAR-2019

Managing Director

00000139

SGM. (COMPRESSION)
No: 4391
Date: 12-03-19

SPECIAL BUDGET.

SUI NORTHERN GAS PIPELINES LIMITED
REQUEST FOR MANAGEMENT SANCTION
(FOR INTERNAL USE ONLY)

REF. NO: C - M ()
DATE: 28-02-2019

[RE-LOCATION OF COMPRESSOR PACKAGE]

TO: GENERAL MANAGER (FINANCE)
Department: TRANSMISSION
Required at (Location): MULTAN STORES
For Section: COMPRESSION

Description: Relocation of Gas Turbine Compressor Package and System Augmentation at Compressor Station AC-6 (Multan) for Transmission of 1350 MMCFD RLNG.

Sanction Ref:

SR. NO.	DESCRIPTION	FEC	DUTIES	OTHER EXPENSES (LOCAL)	TOTAL	REMARKS
(MILLION RUPEES)						
1	Materials A. Restaging Hardware for Booster Compressor for 01 No. compressor package T-47 relocated from AC1-X (Qadirpur) to AC-6	✓ 33.033	4.96	0.991	38.981	Ref. Annexure - I
2	B. Pipework / Valves / Fittings / Equipments	✓ 2.666	0.400	0.067	3.133	Ref. Annexure - II
3	C. Water Cooled Heat Exchanger (300 MMCFD)	✓ 27.720	4.158	0.693	32.571	Ref. Annexure - II
4	Civil Construction of pipe supports & Unit foundations, sheds, trenches, flooring, pavements, camp setup, consumables etc.	-	-	✓ 7.481	7.481	Ref. Annexure - III
5	Electrical Materials	-	-	✓ 2.883	2.883	Ref. Annexure - IV
GRAND TOTAL		63.421	9.513	12.114	85.048	

General Manager (F) Remarks:

Agent Job No. 19/43/090049
(INTERNAL POLICY)

Requested by:

GENERAL MANAGER (COMPRESSION)

- Approval of the BOD in 519th meeting dt:08-03-2019 as following:
 - ✓ Re-location of Gas Turbine Compressor Package and System Augmentation at Compression Station at AC-6 (Multan) For Transmission of 1350 MMCFD RLNG;
 - ✓ Also advised the Management to expedite the re-location of gas turbine compressors at AC-6.
- The work on Project may be allowed to start immediately keeping in view the directions of the BOD, meanwhile the Project will be submitted by Compression department to OGRA for approval as stated in their memo reference SGMC-207/15(1) dated:05-03-2019

General Manager (Finance)

Chief Financial Officer

SR. GENERAL MANAGER (COMPRESSION)

MANAGING DIRECTOR

thier
Deput.

Sanction Ref. No. TR/COMP/SP-AC-6

Dated: 08-MAR-2019

2m (comp) and 1/2
casualty execute on T6P
Priority to meet Target
Jan 12/3

GMC-92/14/291

SUI NORTHERN GAS PIPELINES LIMITED

FAX / MEMORANDUM

From: SGM (Compression)

To: Company Secretary

Ref: SGMC-92/14/291

Dated: 14.02.2019

AGENDA FOR THE FINANCE / PROCUREMENT COMMITTEE

Please find enclosed Agenda for the Finance / Procurement Committee of Directors regarding "Requirement of funds for re-location of Gas Turbine Compressor Package and system augmentation at Compressor Station AC-6 (Multan) for transmission of 1350 MMCFD RLNG" duly signed by Managing Director for your perusal.



MUHAMMAD ASLAM
SR. GENERAL MANAGER (COMPRESSION)

00000141

SUI NORTHERN GAS PIPELINES LIMITED

AGENDA FOR THE FINANCE / PROCURMENT COMMITTEE
MEETING NO: _____ HELD ON _____

REQUIREMENT OF FUNDS FOR RE-LOCATION OF GAS TURBINE COMPRESSOR PACKAGE AND SYSTEM AUGMENTATION AT COMPRESSOR STATION AC-6 (MULTAN) FOR TRANSMISSION OF 1350 MMCFD RLNG

INTRODUCTION / BACKGROUND:

Under LNG Infrastructure development project (Phase-I & II), Compression infrastructure has been augmented to receive and transport 1200 MMCFD RLNG in addition to existing indigenous gas supplies in our transmission network. Accordingly, Compression infrastructure was expanded at compressor stations AC1-X (Bhong), AC-4 (Uch Sharif) and AC-6 (Multan) to transport 1200 MMCFD RLNG and indigenous supplies downstream of compressor station AC-6. The design pressures and flows at these compressor stations were as follows;

Compressor Station	U/S Pressure (Psig)	D/S Pressure (Psig)	Design Flow (MMCFD)
AC1-X (Q)	600	1102	340
AC1-X (Sui)	804	1100	1781
AC-4	905	1100	1950
AC-6	930	1170	1616

Now, as per directives of Government of Pakistan, Company has planned to transport additional 150 MMCFD RLNG supplies downstream of compressor station AC-6 (Multan) to be supplied to Punjab Power Plant (Tarimu) through 24" dia. Tarimu Power Pipeline. In coming years to meet demand of Power sector, LNG to the tune of 1170 MMCFD (max) has been planned to supply to this sector as per requirement of NTDC, Islamabad and major part of this gas volume will be utilized in power houses located downstream of Multan i.e. Compressor Station AC-6. In this regard letter from Ministry of Energy, Petroleum Division & Power division are placed opposite as Annexure A & B. In order to comply with Government of Pakistan's plan, a detailed system analysis was carried out for transportation of this additional 150 MMCFD RLNG and its supply downstream AC-6, while considering the depletion of indigenous gas supplies which has provided sufficient cushion to cater these additional flows. By comparison of the anticipated and designed flow capacities of transmission & compression system, it is established that the additional 150 MMCFD flow may be accommodated at compressor stations AC1-X (Bhong) and AC-4 (Uch Sharif) without any further infrastructure expansion, however compression system augmentation is required at compressor station AC-6 (Multan) to process 1796 MMCFD flow against designed maximum capacity of 1670 MMCFD.

BASIS OF PLANNING – COMPRESSION INFRASTRUCTURE

After induction of 150 MMCFD additional RLNG in transmission network, the anticipated flows through compressor stations ACI-X, AC-4 & AC-6 against design capacities are tabulated hereunder:

Compressor Station	TABLE-I (All values in MMCFD)			
	RLNG Design Flow (1200 RLNG)	Maximum Flow Capacity	Anticipated Flow (1350 RLNG)	Capacity Deficit
ACI-X (Q)	340	400	227	+173
ACI-X (Sui)	1781	1950	1696	+254
AC-4	1950	1950	1907	+43
AC-6	1616	1670	1796	-126

The horsepower requirement at each of these compressor station has also been evaluated to cater this additional flows, summarized in the table below;

Compressor Station	TABLE-II (All values in HP)				
	Available HP (Winters)	Available HP (Summers)	Net Available HP*	Required HP (1350 RLNG)	Power Deficit
ACI-X (Q)	21556	19064	15468	9780	+5688
ACI-X (Sui)	46458	41402	34073	32080	+1993
AC-4	41537	36735	29544	22659	+6885
AC-6	32306	28494	22514	23705	-1191

*Net Available Horsepower (HP) is calculated after accounting for atleast one mandatory stand-by compressor package at each station.

In addition to compressor station's available horsepower, an analysis of auxiliary compression system was also conducted, which is summarized in table below along with compressor packages capacities keeping in view the current compressor staging configuration and design pressure parameters;

Compressor Station	TABLE-III (All values in MMCFD)				
	Gas Filtration Capacity	Gas Cooling Capacity	Compressors Capacity	Anticipated Flow (1350 RLNG)	Capacity Deficit
ACI-X (Q)	642	670	400	227	+173
ACI-X (Sui)	1985	2000	1950	1696	+254
AC-4	2101	2100	1950	1907	+43
AC-6	1826	1670	1670	1796	-126

The above analysis illustrates that in order to transmit additional gas downstream of compressor station AC-6, a system augmentation is required at compressor station AC-6 whereas the compressor stations AC1-X and AC-4 can cater this additional flow of gas without any further expansion of system.

PROJECT SCOPE - INFRASTRUCTURE REQUIREMENT

Keeping in view the compression system analysis, following augmentation is required at compressor station AC-6 (Multan);

1. Addition of One (1) Gas Turbine Compressor Package to existing compressor train at AC-6 (A-Section). This additional compressor package may be relocated from compressor station AC1-X (Q) where sufficient spare horsepower is present and the anticipated flows from Qadirpur field are assumed to remain at current values. Hence, Unit No. 2 (Centaur-4700 with C-3043 compressor) may be de-commissioned and relocated to AC-6 (A).
2. Re-staging of Compressor shall be required from 3-Stage C-Type to 2-Stage D-Type Staging in order to meet the required operational parameters and synchronize with existing system at AC-6. All the re-staging works shall be done through in-house resources however, re-staging hardware shall be procured. The cost of re-staging is included in the cost estimates.
3. To cater for the bottleneck of gas cooling capacity at AC-6, One (1) No. Water Cooled Heat Exchanger shall be procured and installed at AC-6 (A-Section) in parallel with existing heat exchangers. The capacity of cooling towers shall be enhanced by operating them at full capacity without any augmentation. Since the lead time for procurement of heat exchanger is about 12 Months, therefore in order to meet the anticipated additional gas demands, starting from July 2019, one (1) no. heat exchanger shall be relocated Temporarily from compressor station CC-1 (Haran pur) to AC-6 and shall be installed back after procurement and delivery of new heat exchanger to maintain the compression system capacity at CC-1.
4. Most of the major piping required for expansion works shall be relocated from Compressor station AC-7 (Shorkot) which has already been de-commissioned during LNG Projects.

COST ESTIMATES


Detail Capital Cost Estimates are summarized below in Table-IV;

Sr. #	DESCRIPTION	Estimated Cost (Million Rs.)
1	Materials	
A)	Restaging Hardware for Booster Compressor for 01 No. compressor package T-47 relocated from AC1-X (Qadirpur) to AC-6	43.778
B)	Pipework / Valves / Fittings / Equipments	3.133
C)	Water Cooled Heat Exchanger (300 MMCFD)	32.571
	Sub-Total (I)	79.482
	Relocation Cost	
2	Civil Construction of pipe supports & Unit foundations, sheds, trenches, flooring, pavements, camp setup, consumables etc.	7.545
3	Construction Cost	
4	Electrical Materials	11.706
5	Transportation of Material	2.933
6	Engg./Administrative Overheads.	0.750
	Sub-Total (II)	23.487
	GRAND TOTAL (I + II)	102.969

RECOMMENDATIONS:

The Finance committee of Directors is requested to consider and make recommendations to the Board of Directors to accord approval for proposed Compression Infrastructure development and approval of capital outlay of Rs. 102.969 Million to transport 1350 MMCFD RLNG downstream of Compressor Station AC-6 (Multan).


(SHAHADAT ALI)
GM (COMPRESSION)


(MOHAMMAD ASLAM)
SGM (COMPRESSION)


AMIR TUFAIL
MANAGING DIRECTOR



SUI NORTHERN GAS PIPELINES LIMITED
MEMORANDUM

From: General Manager (Sales)	To: Sr. General Manager (Compression)
REF: GMS:938 (LNG)	
Dated: February 4, 2019	

MOST IMMEDIATE


REQUIREMENT OF RLNG TO POWER SECTOR FROM JANUARY TO
DECEMBER, 2019

Please find enclosed the Ministry of Energy (Petroleum Division)'s letter No. NG(II)-16(4)/19-RLNG-Misc dated 01.02.2019, wherein requirement of RLNG to Power Sector from *January to December, 2019* communicated vide Power Division's earlier letter dated 18.01.2019 is *firmed requirement* (copy enclosed).

This is for your information please.

cc: SGM (BD)


SHAHID MAQSOOD
General Manager (Sales)

Gm (Comp)
please discuss.

4/2


14/2

00000146

NO. 12/11/2019
12/30/2019

Ministry of Power
Government of Punjab
Electricity Division
Director General
First Floor, Petroleum House, G-1/2

Islamabad, the 17 February, 2019

The Managing Director,
Punjab Gas Pipelines Limited,

REQUIREMENT OF RING TO POWER SECTOR FROM JANUARY TO DECEMBER 2019

Sir,

I am directed to refer to SGOPL's various letters regarding the above subject and to the Punjab Gas Division vide CS-1, P.G. IPP-10/2018 dated 24.01.2019 (Copy enclosed) has forwarded the requirement of Ring to Power Sector from January to December, 2019. The Punjab Gas Division's letter dated 18.01.2019 is firm requirements from the Punjab Gas Division, the same may be placed accordingly.

SGOPL is requested to coordinate with PLL / PSO and respective power sector for the requirement of Ring to Power Sector for the requirement of power plant(s).

Yours truly,


(Sahibuddin Khan)
Assistant Director (Tech)

Ministry of Energy
(Power Division)

Islamabad 18th January, 2019.

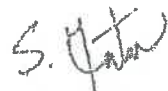
OFFICE MEMORANDUM

Subject: REQUIREMENT OF RLNG TO POWER SECTOR FROM JAN TO DEC 2019.

The undersigned is directed to refer to this Division's earlier OM No IPPs(38)/2018 dated 03-01-2019 and to enclose herewith NTDC letter No 951/GMSO/NPCC dated 17-01-2018 indicating the requirement of RLNG to power sector from Jan to Dec 2019.

2. It is to inform that during the months of December, 2018 and January, 2019, LNG has not been supplied to Power Plants as per demand of Power Division. It is, therefore, reiterated that the LNG may be supplied/ arranged as per demand being conveyed vide the enclosed letter in order to avoid usage of expensive RFO for electricity generation.
3. It is therefore requested that further necessary action may be taken in the matter under intimation to this Division, at the earliest.

The Secretary,
Ministry of Energy,
(Petroleum Division)
Islamabad.


(Muhammad Saulat Ali)
Section Officer (IPPs)
Tele: 9223090

S.C.

- i. PSO to Secretary, Ministry of Energy, Power Division, Islamabad
- ii. PS to Special Secretary, Ministry of Energy, Power Division, Islamabad.
- iii. Ps to Additional Secretary, Ministry of Energy, Power Division, Islamabad.
- iv. PS to Joint Secretary (PF), M/o Energy, Power Division, Islamabad.

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National Transmission & Despatch Company Ltd

Phone: 051-9257203
Exchange: 051-9258177-78
Fax: 051-9257141

Office of the
General Manager (System Operation)
National Power Control Center, NTDC
H-5/1, Islamabad

No. 957 /GMSO/NPCC/

Dated: Jan 17, 2019

Joint Secretary (Power & Finance)
Ministry of Energy, Islamabad

Subject: Requirement of RLNG to Power Sector for Jan to Dec 2019.

Ref: SNGPL No. GMS.933 (LNG), Dated January 09, 2019 (Copy attached)

SNGPL has requested the RLNG demand (vide referenced letter, addressed to your good self & faxed to this office) for power sector for the months from Jan to Dec, 2019 in addition to Annual Delivery Plan (ADP), of 3 Nos Gas Power Plants (Bhikki, Haveli and Balloki). NPCC has already submitted (via email and in CCOE meeting) the plant wise tentative RLNG requirement, assuming the present available data / information. The same is being tabled below for your reference. Please inform this office in case any revision/ corrections are needed.

Plant Name	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
RLNG REQUIREMENT	MMCFD	MMCFD	MMCFD	MMCFD	MMCFD	MMCFD
Haveli Bahadur Shah (CC)	173	136	169	178	164	108
Balloki (CC)	173	132	170	179	164	179
Bhikki (CC)	141	137	103	175	160	175
Nandipur (CC)	0	0	90	90	90	90
Orient	0	0	40	40	40	40
Sapphire	0	0	40	40	40	40
Saif	0	0	40	40	40	40
Halmore	0	0	39	30	39	39
Kapco Block-I (CC)	0	0	60	74	74	74
FKPCL	0	0	28	42	42	42
Rousch	0	0	47	85	85	85

Plant Name	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
AEL	0	0	6	6	6	6
Kapco Block-II (CC)	0	0	16	65	170	170
Kapco Block-III (CC)	0	0	0	0	56	0
Devis	0	0	0	0	0	0
	495	405	848	1043	1,170	1,088

Plant Name	July-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
RLNG REQUIREMENT	MMCFD	MMCFD	MMCFD	MMCFD	MMCFD	MMCFD
Haveli Bahadur Shah (CC)	178	178	178	172	129	169
Baloki (CC)	179	105	179	173	130	169
Bhilai (CC)	175	175	175	169	127	125
Nandipur (CC)	90	90	45	46	0	0
Orient	40	40	40	40	0	0
Sapphire	40	40	24	27	0	0
Saif	40	40	40	14	0	0
Halmore	39	39	40	39	0	0
Kapco Block-I (CC)	47	74	0	0	0	0
FKPCL	0	42	42	42	0	0
Roush	0	85	85	85	0	0
AEL	0	6	6	6	0	0
Kapco Block-II (CC)	0	0	150	0	0	0
Kapco Block-III (CC)	0	0	0	0	0	0
Devis	0	0	0	0	0	0
	828	914	1,004	814	385	463

It is clarified that gas consumption will be subject to demand/need of District, availability of plant, availability of network for evacuation of power, merit order and final generation schedule. It is also clarified that consumption may vary with time/demand and it cannot be fixed on constant rate of flow.

Signature
17/01/24
General Manager (NPCC)
NTDC, Islamabad



SUI NORTHERN GAS PIPELINES LIMITED

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

Reference: RA-TAR-18-19(P)-065

Date: January 8th, 2019

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

Subject: DIGITIZING THE SYSTEM FOR DISPATCH OF AGENDAS TO THE DIRECTORS

Dear Sir,

The Board of Directors in its 513th meeting has approved the budget of Rs. 9.00 million (Rupees Nine Million) at the conversion date of 1US\$ = 120 Pak Rupees excluding applicable taxes for digitizing the system for Board meetings. The Board also accorded approval to revise the amount of budget based on the US\$ to Rupees parity as of the date of placement of order (detail board agenda and approval attached as *Annex-A*)

In view of the above, the Honorable Authority is requested to kindly approve the subject project and to make it part of RERR 2018-19.

Thanking you.

Yours faithfully,
Sui Northern Gas Pipelines Ltd


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

Encl: As above

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S.N.G.P.L

15 NOV 2018

NO. 784
IT/MIS DEPARTMENT

SUI NORTHERN GAS PIPELINES LIMITED

MEMORANDUM

FROM: Company Secretary	TO: GM (IT)
Ref. CA/BOD-1/2788	November 13, 2018
Thru: DMD (Services)	

CONFIDENTIAL

**EXTRACT FROM THE DRAFT MINUTES OF THE 513TH MEETING
OF THE BOARD OF DIRECTORS HELD ON OCTOBER 31, 2018**

We reproduce below extract from the draft minutes of the 513th meeting of the Board of Directors, held on October 31, 2018 for your information and necessary action, as well as for immediate response to the queries raised by the worthy Directors, if any, please.

5887 ITEM-I DIGITIZING THE SYSTEM FOR DISPATCH OF AGENDAS TO THE DIRECTORS

- 9.1 With the permission of the Chairman, the recommendations of the Finance and Procurement Committee were tabled at the meeting.
- 9.2 Mirza Mahmood Ahmad, Director and Chairman Finance and Procurement Committee explained this item of the Agenda along with recommendations of the Finance and Procurement Committee to the members of the Board.
- 9.3 The CFO pointed out that the budget for Digitizing Agendas is worked out on the basis of US \$ to Rupee parity at 1 US \$ = Rs.120 whereas the present US\$ to Rupee parity on a far higher side. Thus the approval needs to be based on the US \$ to Rupee parity as of the date of placement of order.
- 9.4 After due deliberation and in accordance with the recommendations of the Finance & Procurement Committee given at its 297th meeting held on October 26, 2018, the Board accorded approval to a budget of Rs.9.00 million (Rupees Nine Million) at the conversion rate of 1 US\$ = 120 Pak Rupees excluding applicable taxes for digitizing the system for Board meetings. The Board also accorded approval to revise the amount of budget based on the US \$ to Rupee parity as of the date of placement of order.

These draft minutes have been circulated amongst the Directors after clearance by the Chairman of the Board of Directors. Comments, if any, received from them will be communicated in due course.

cc: MD

Deelish Ayub
16/11

Rajesh Kumar
Company Secretary

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AGENDA FOR FINANCE & PROCUREMENT COMMITTEE MEETING - ITEM "D"

Dated: July 31, 2018

DIGITIZING THE SYSTEM
FOR DISPATCH OF AGENDAS TO THE DIRECTORS

This is with reference to digitizing the system for dispatch of agenda to the Board of Directors. The BOD has observed that hefty agenda files are not only difficult to handle but their storage also becomes a problem. The honourable members of the BOD also discussed that it may be a good idea to use board books/tablets which allow directors to easily sync and view materials for the Board and Committee meetings.

As advised by the BOD, IT/MIS has performed research about the software and solutions available on the Internet. There are various software products as well as web based board portals in the market that allow the directors and the concerned personnel to access and manage board documents/books. The board portals provide functionalities for administrative staff to easily manage board meetings – from meeting preparation to distribution of agenda items, tracking of actions and record of previous meetings.

IT/MIS has evaluated few of the leading software solutions available in the market for Digitization of board meetings. IT/MIS has also conducted trial/Proof of concept (POC) of the following key Board Solution providers:

S/No.	Company Name	Software Solution
1	Azeus (UK)	Convene
2	Diligent (USA)	Diligent Boards
3	Nasdaq (USA)	Nasdaq Boardvantage

All of the above companies and various others offer solutions that are well known and used by hundreds of fortune 500 companies across the globe. The offered solutions are available both as Software as a Service (SaaS) and On-premise or in-house installation as well. SaaS or Cloud based system has normally more features such as Unlimited Storage, meetings, committees and dedicated service manager to access 24/7/365 helpdesk. Cloud based solutions are usually quick to provision and it is therefore proposed to acquire Cloud based initially and later convert to On-Premise if needed.

It may kindly be noted that for Cloud based solution, Board Documents/Data are stored outside Pakistan on systems managed by the above mentioned companies as Service Providers at different regions across the globe. All the companies have comprehensive policies and procedures in place for secrecy and privacy of Data with third-party certifications such as SSAE-16/SOC 2 (type II), ISO-27001, etc.

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Based on the information available on Web and budgetary estimates provided by the above mentioned companies, the estimate of the solution is detailed below:

Sr.	Item	Cost (Rs.)	Remarks
1	Licensing/Annual Subscription Cost	3,300,000	Budgetary Estimates for Annual Subscription
2	Implementation Services	500,000	Cost for setup/installation
3	Training	2,000,000	Software Training for Administrators
4	Tablets	3,200,000	30 Tablets (Android/iOS) based
	Total Cost	9,000,000	Excluding Applicable Taxes

*Budget is based on estimate USD to PKR conversion rate of 120 and excluding applicable taxes.

The Management hereby recommends to Finance and procurement Committee to further recommend the Board of Directors to allow and approve PKR 9,000,000/- (Nine Million) for digitizing the system for Board Meetings.


(MUHAMMAD RIAZ)
GENERAL MANAGER - IT/MIS


(AMER TUFAIL)
DMD (SERVICES)


(AMJAD LATIF)
MANAGING DIRECTOR

18-10
10000000
Perfected
with

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