2-5-17 : SCREENS

1. ELECTRIC MOTOR

CODE NO DESCRIPTION 03-01-00921 SPEED=450 RPM, POWER=3.3 KW, 380 V.	QTY 2
03-01-00921 3FEED=430 KFW, FOWER=3.3 KW, 380 V.	2
03-01-00922 SPEED=750 RPM, POWER=4.4 KW, 380 V.	2
03-01-00923 SPEED=750 RPM, POWER=4.4 KW, 380 V.	2
03-01-00924 SPEED=750 RPM, POWER=4.4 KW, 380 V.	2
03-01-00925 SPEED=750 RPM, POWER=4.4 KW, 380 V.	1
03-01-00926 SPEED=750 RPM, POWER=4.4 KW, 380 V.	1
03-01-00927 SPEED=750 RPM, POWER=4.4 KW, 380 V.	1
03-01-00928 SPEED=450 RPM, POWER=3.3 KW, 380 V.	2

2. GRILL MESH

03-01-00929 03-01-00930 03-01-00931	2000X1800 MM 2000X1800 MM 2000X1800 MM 1800X1000 1800X1000 1800X1000	QTY 2 2 2 1 1 1 2
3. SCREEN		
CODE NO	DESCRIPTION	QTY
03-01-00937	9X1700 MM	2
03-01-00938	7X1800	2
03-01-00939		2
03-01-00940		2
03-01-00941		1
03-01-00942		1
03-01-00943		1
03-01-00944	9X1700	2
4. SCREEN	CHAIN	
	DESCRIPTION	QTY
03-01-00945	200MM /CHAINX3600MM	2
03-01-00946	150MM /CHAINX1600MM	2
03-01-00947	150MM /CHAINX1600MM	2
03-01-00948	150MM /CHAINX1600MM	2
03-01-00949	150MM /CHAINX1600MM	1
03-01-00950	150MM /CHAINX1600MM	1
	150MM /CHAINX1600MM	1
03-01-00952	200MM /CHAINX3600MM	2
CODE NO	DESCRIPTION	QTY
	COMPLETE SCREEN WITH FOLLOWING	14
	DETAILS	

MANUFACTURER : AMG BROSTA SCREEN WIDTH : 960MM CHANNEL WIDTH :150MM CHAIN DIMENSION: (OUTER: 600MM), (INNER: 53MM) CHAIN LENGTH: 11250 MM , (50 MM EACH CHAIN RING) COUNTER WEIGHT DIMENSION: (140MMTHICKNESS, 300MM HIGH,) DISTANCE BETWEEN EXTERNAL AND 1NTERNAL ROPS: 1390 MM (EXTERNAL), (1060MM INTERNAL) GEAR BOX: TYPE XWG82-10 , 50HZ, 5.9 AMP WITH SPARE PARTS FOR TWO YEARS **OPERATION**

2-5-18 : VALVES AND PENSTOKS A95

L U IU. VAL		
SEWAGE PU	IMPING STATION, SUCTION AND DISCHARGE VAL	VES
1. ELECTRIC	CAL VALVES	
CODE NO	DESCRIPTION	QTY
03-01-00954	400 MM DIAMETER WITH GEAR BOX, AND	20
	SPARE GEAR BOX	
03-01-00955	500 MM DIAMETER WITH GEAR BOX, AND	10
	SPARE GEAR BOX	
03-01-00956	700 MM DIAMETER WITH GEAR BOX, AND	10
	SPARE GEAR BOX	
03-01-00957	500 MM DIAMETER,630 RPM,	2
03-01-00958	500 MM DIAMETER , 450 RPM,	1
03-01-00959	1000 MM DIAMETER,840 RPM,4.4 KW	3
03-01-00960	1000 MM DIAMETER, 730 RPM,50 KW	2

2. MECHANICAL VALVES

CODE NO	DESCRIPTION	QTY
03-01-00961	8 INCH DIAMETER	56
03-01-00962	12 INCH DIAMETER	32
03-01-00963	14 INCH DIAMETER	8
03-01-00964	4 INCH DIAMETER	6
03-01-00965	6 INCH DIAMETER	12
03-01-00966	150MM DIAMETER	42
03-01-00967	750MM DIAMETER	6
03-01-00968	250MM DIAMETER	24
03-01-00969	200MM DIAMETER	20
03-01-00970	300MM DIAMETER	36
03-01-00971	400MM DIAMETER	14
03-01-00972	500MM DIAMETER	26
03-01-00973	350MM DIAMETER	28
03-01-00974	600 MM DIAMETER	16
03-01-00975	270MM DIAMETER	16
	AINING VALVE	
	DESCRIPTION	QTY
03-01-00976	8 INCH DIAMETER	56
03-01-00977	12 INCH DIAMETER	32

03-01-00978 14 INCH DIAMETER	8
03-01-00979 4 INCH DIAMETER	6
03-01-00980 6 INCH DIAMETER	12
03-01-00981 100MM =	6
03-01-00982 900 MM =	
	11
03-01-00983 800 MM =	7
03-01-00984 700 MM =	10
03-01-00985 600 MM =	8
03-01-00986 500 MM =	13
03-01-00987 400 MM =	4
03-01-00988 350 MM =	16
03-01-00989 250 MM =	8
	7
03-01-00990 200 MM =	7
4. PENSTOCKS	
CODE NO DESCRIPTION	QTY
03-01-00991 225 MM DIAMETER	
03-01-00992 500 MM =	
03-01-00993 400 MM =	
03-01-00994 315 MM =	
03-01-00995 400 MM DIAMETER WITH ELECTRIC MOTOR	6
(2800 RPM,400V.,0.18 KW)	0
	4
03-01-00996 1800 MM DIAMETER, 1450 RPM,3.7KW	1
03-01-00997 600 MM DIAMETER,1320 RPM, 0.4 KW	3
03-01-00998 300 MM DIAMETER	12
03-01-00999 200 MM =	8
03-01-01000 400 MM =	4
03-01-01001 150 MM =	1
03-01-01002 175 MM =	1
03-01-01003 125 MM =	1
03-01-01004 100MM =	1
	1
03-01-01005 600 MM =	
03-01-01006 750 MM =	1
03-01-01007 350 MM =	3
5. ELECTRICAL PRESSURE VALVE GATE (PENSTOKS)	
CODE NO DESCRIPTION	QTY
03-01-01008 ELECTRIC MOTOR:	8
AUMA , TYPE MD 71-2180	
3~ 230V-400V, 1.1 KW, 50HZ, 2800 MIN, /Y	
5,9/34A COSQ 0.86 , IP=67 , WITH SPARE	
PARTS	
	0
03-01-01009 GEAR BOX: AUMA	8
TYPE SA 12E , PROTECTION IP 67, MIN-MAX	
30-120, 1/M=12.5, LUBRICATION EP, WITH	
SPARE PARTS	
03-01-01010 ELECTRIC MOTOR:	2
AUMA , TYPE MD56-2160	
3~ 230V-400V, 0.37 KW, 50HZ, 2800 MIN, /Y	
2.4/1, 35 A COSQ 0.73 , IP=67 , WITH SPARE	
	2
03-01-01011 GEAR BOX: AUMA	2
TYPE SA 12E , PROTECTION IP 67, MIN-MAX	
30-120, , SPEED=1/M=32, LUBRICATION EP,	
WITH SPARE PARTS	
SECTION 2-5-19: SEWER LINES SAFTY AND CLEANING M	ATERIALS AND EQUIPMENT
CODE NO DESCRIPTION	QTY

03-01-01012	MUNICIPAL TRAILER WINCH MOUNTED ON CHASSIS	18
03-01-01013	CONE DEVIL	80
03-01-01014	SAND CONE	80
	TWIST DEVIL	80
	SCALE BREAKER	80
	DRAG LINE BRUSH	180
	HIGH PRESSURE CLEANING MACHINE WITH SPARE PARTS	6
	BRUSHES FOR CLEANING SEWERS STEELKANE ROPES	360
03-01-01021	HIGH PRESSURE FLEXIBLE HOSE :	5000M
	1- INCH DIAMETER, 80 M LONG	
	OPERATING PRESS: 200 BAR,	
	TECH. DESCRIPTION:	
	SEWER JETTING AND HEAVY DUTY, HIGH PRESSURE WATER CLEANING	
	INNER TUBE: SBR,BLACK SMOOTH	
	REINFORCEMENT: SYNTHETIC TEXTILE ,	
	BRAIDS	
	COVER: SBR/NR, BLACK, SMOOTH	
	TEMPERATURE RANGE: - 30 C - + 80 C	
	INTERNAL DIA: 25.00MM	
	WALL THICKNESS: 7.15 MM	
	EXTERNAL DIAM: 39.30 MM	
	WORKING PRESSURE : 200 BAR	
	BENDING RADIUS: 110 MM WEIGHT: 0.88 KG/M	
	LENGTH: 80 M	
03-01-01022	HIGH PRESSURE FLEXIBLE HOSE :	2000M
	³ / ₄ - INCH DIAMETER, 80 M LONG	
	OPERATING PRES: 200BAR	
03-01-01023	CLEANING EQUIPMENT'S FOR CLEANING	50 SET
	SCREENS :	
	PROTECTION MASK	
00.04.04004		000014
	SAFETY ROPES SAFETY BELTS	2000M 100
	WATER LEAKAGE DETECTOR	18
	METAL DETECTOR	18
00 01 01021	RANG UP TO 4M	10
	POWER SUPPLY : 9VOLT BATTERY DC.	
	MAGNETIC FIELD, LIGHT WEIGHT,	
	EQUIPPED WITH HEAD PHONE	
03-01-01028	SEWAGE CLEANING ROADS , 1-1.5 LONG	150000
	CLEANING NOZZLES FOR JETTING	
	BULLET NOSED NOZZLE WITH REARWARD FACING, ANGLED JETS TO GIVE SELF	
	PROPULSION FOR GENERAL CLEANING	
	PURPOSE	
03-01-01029	¾ INCH B.S.P THREAD	30
	1 INCH B.S.P THREAD	30
	AS THE FIRST TYPE FOR BLOCKAGE	
	CLEARANCE BUT HAVING AN ADDITIONAL	
	FORWARD FACING JET:	

	¾ INCH B.S.P. THREAD 1 INCH B.S.P THREAD ROTTING TOOLS	20 20
03-01-01034 03-01-01035 03-01-01036	STANDARD CROCK SCREW 4 INCH DOUBLE CORKSCREW 3 INCH DOUBLE CORKSCREW 5 INCH FISHING TOOLS BREATHING SYSTEM INCLUDES : CYLINDERS WITH CAPACITY SUITABLE FOR TWO TWO WORKING HOURS , FACE MASK WITH FILTER SUITABLE TO BE USED WITH CHLORINE GAS WITH ACCESSORIES	60 30 30 40 20 SET
	SECTION 3 : MACHINERY AND EQUIPMENT 1: WHEEL LOADER DESCRIPTION ENGINE : DIESEL, DIRECT INJECTION , 4 CYLINDER, IN LINE , WATER COOLED , FOUR STROKE ,	QTY 112
	BUCKET CAPACITY : 0.8m3 POWER: 80-100 HP OPERATING WEIGHT : 5-6 TON TIRE SIZE: 16/70-20 HYDRAULIC OPERATING: MANUAL HYDRAULIC OPERATION , NOT BY ELECTRIC OR AIR SYSTEM PRODUCTION SHOULD BE UNDER ISO 9001 CERTIFICATION FOR QUALITY WITH 20% SPARE PARTS FOR 2 OPERATING YEARS 2: WHEEL LOADER DESCRIPTION ENGINE : DIESEL, DIRECT INJECTION , 4 CYLINDER, IN LINE , WATER COOLED , FOUR STROKE ,	QTY 78
CODE NO	BUCKET CAPACITY : 2.4m3 POWER:180-200 HP OPERATING WEIGHT :12-13 TON CLIMBING ABILITY: NOT LESS THAN 25 TIRE SIZE: 20.5-25 HYDRAULIC OPERATING: MANUAL HYDRAULIC OPERATION , NOT BY ELECTRIC OR AIR SYSTEM PRODUCTION SHOULD BE UNDER ISO 9001 CERTIFICATION FOR QUALITY WITH 20% SPARE PARTS FOR 2 OPERATING YEARS 3: WHEEL EXCAVATOR DESECRATION ENGINE: DIESEL, DIRECT INJECTION , 4 CYLINDER, IN LINE , WATER COOLED , FOUR STROKE ,	QTY 50

BUCKET CAPACITY : 0.6 m3 AND 1M3 **OPERATING WEIGHT 20-22 TON GRADEABILITY : 30-35** DRIVE SYSTEM: HYDRAULIC DRIVE TRANSMISSION: FORWARD, REVERES, 2 SPEED GEAR MAX. DIGGING DEPTH: 6-8 M **PRODUCTION SHOULD BE UNDER ISO 9001** CERTIFICATION FOR QUALITY WITH 20% SPARE PARTS FOR 2 **OPERATING YEARS , AND JACK HAMMER**

SECTION 3-4: CESSPOOL EMPTIER

CODE NO DESCRIPTION QTY 03-01-01041 ENGINE: DIESEL, DIRECT INJECTION, 6 CYLINDER, IN LINE, WATER COOLED ,INTER COOLING FOUR STROKE ,TROPICAL, TURBOCHARGE , POWER NOT LESS THAN 240 HP

40

CHASSIS: (4X2) CLUTCH: DRY SINGLE PLATE, PRESS TYPE, 422 MM 17 GEAR BOX: 8+1 MANUAL GVW: NOT LESS THAN 19 TON PAY LOAD: 12 TON **CESSPOOL EMPTIER TANK:** SHAPE: CYLINDRICAL, CAPACITY: 10000L, THICKNESS: 6MM VACUUM SYSTEM: TYPE: ROTARYSLIDING VANE WITH CARDEN SHAFT DRIVEN FROM P.T.O, CAPACITY: NOT LESS THAN 750M3LH, VACUUM EFFICIENCY : 90% PROVIDED WITH: HIGH PRESSURE PUMP NOT LESS THAN 140L/S, FLEXIBLE HOUSE WITH GUN 20 M.L, ADDITIONAL TANK OF 500 L. CAPACITY FOR FRESH WATER STORAGE, COMPLETE WATCHING SYSTEM, HOSE BOXES ON EACH SIDE OF TANK,

TIRE SIZE: 1200X20 OR 1100X20 **PRODUCTION SHOULD BE UNDER ISO 9001** CERTIFICATION FOR QUALITY WITH 20% SPARE PARTS FOR 2 **OPERATING YEARS**

SECTION 3-5: FIELD VEHICLE, DOUBLE CAP, PICK-UP

CODE NO DESCRIPTION QTY 03-01-01042 ENGINE :PETROL, 4 CYLINDER, IN LINE, 150 WATER COOLED, WITH CARBORATOTER, POWER: NOT LESS THAN 100-130 HP FOUR STROKE

> CLUTCH: DRY SINGLE PLATE GEAR BOX:5 SPEED MANUAL

TIRE SIZE: 650X14 (2FRONT + TWO REAR+1SPARE) DRIVEN TYPE: REAR-WHEEL DRIVE, 4X2 SEATS:5 STEERING : POWER STEERING , LEFT POSITION OF STEERING WHEEL, RACK AND PINION DOUBLE CAP, PICK UP WITH FOUR DOORS WITH AIR CONDITIONING , FIRE DISTINGUISH, RADIO CASSETTE WITH 20% SPARE PARTS FOR 2 **OPERATING YEARS** SECTION 3-6: FIELD VEHICLE, LAND CRUISER CODE NO DESCRIPTION QTY 03-01-01043 ENGINE : PETROL, 6 CYLINDER, IN LINE, 32 WATER COOLED, WITH CARBORATOTER, POWER: NOT LESS THAN 200 HP FOUR STROKE, 4 WHEEL DRIVE CLUTCH: DRY SINGLE PLATE GEAR BOX: MANUAL TYRE SIZE: 750X16 (2FRONT + TWO REAR+1SPARE) SEATS:9,4X4 STEERING : POWER STEERING(RACK AND PINION), LEFT POSITION OF STEERING WHEEL DOUBLE CAP, PICK UP WITH FOUR DOORS WITH AIR CONDITIONING, FIRE DISTINGUISH, RADIO CASSETTE WITH 20% SPARE PARTS FOR 2 **OPERATING YEARS** SECTION 3-7: GARBAGE CONTAINER LIFTING TRUCK CODE NO DESCRIPTION QTY CHASSIS CAB: 4 X 2 40 03-01-01044 ENGINE : 6 CYLINDER , 4 STROKE. TURBOCHARGER POWER : NOT LESS THAN 200 HP. CLUTCH : SINGLE PLATE GEAR BOX: 8 SPEED G. V. W : NOT LESS THAN 19 TON PAYLOAD : NOT LESS THAN 11 TON TYRE SIZE: 1200 X 20 DISK TYPE CAPACITY: 16 m HYDRAULIC PUMP : DRIVEN BY POWER **TAKE - OFF VIA CARDEN** SECTION 3-8: PORTABLE WATER PUMPS DIESEL OPERATED CODE NO DESCRIPTION QTY DIESEL ENGINE WITH HORIZONTAL CENTRIFUGAL PUMP SELF PRIMING WITH VACUUM MOBILE SUCTION HEAD NOT LESS THAN 8 M DELIVERY HEAD NOT LESS THAN 30 M

	FUEL TANK CAPACITY IS 10 H/WORK ALL ACCESSORIES FOR CONNECTION WITH HOSE 20 M LONG AIR COOLED MAX SOLIDS SIZE 50 MM MECHANICAL SHAFT SEAL CAPACITY NOT LESS THAN 600 M3/HR IMPELLER : SINGLE STAGE AND SUCTION , MIXED FLOW OF MINIMUM NUMBER OF VANES CAST IRON PUMP SHALL BE DESIGNED TO PUMP SEWAGE CONTAINING SOLIDS AND STRANGE MATERIALS WITH A NIMISM OF CLOGGING	
03-01-01045	PUMP SIZE SUCTION X DISCHARGE	30
03-01-01046	PUMP SIZE SUCTION X DISCHARGE	30
03-01-01047	PUMP SIZE SUCTION X DISCHARGE 200X200 MM	30
03-01-01048	PUMP SIZE SUCTION X DISCHARGE 250X250 MM	30
03-01-01049	PUMP SIZE SUCTION X DISCHARGE 300X300 MM	30
CODE NO	9: DRINKING WATER TANKERS DESCRIPTION CHASSIS CAB : 6 X 4 ENGINE : 4- STROKE , 6 CYLINDER IN LINE TURBOCHARGER POWER : NOT LESS THAN 280 HP. CLUTCH : SINGLE PLATE GEAR BOX : 9 SPEED G. V. W : NOT LESS THAN 30 TON PAYLOAD : NOT LESS THAN 30 TON TYRE SIZE : 1200 X 20 DISK TYPE TANK CAPACITY : NOT LESS THAN 16000 L	QTY 90
CODE NO	10 : CCTV Survey step van : DESCRIPTION CCTV Survey step van : the step van be designed for ease and accessibility throughout . The interior is divided in to three rooms : driver area operator control room with a passage door and an equipment room which is onltillal with brackets for efficient storage of system accessories. ALL TV control components should be modular in design and are mounted for quick and easy operator inspection . The equipment components are: rotation pan and tilt head camera for inspection 150 10 600 mm	QTY 4

	pipeline and additional lighting for up to 900 mm dia . Pipeline	
	150 to 450 mm skid set	
	camera maintenance kit.	
	mainline tractor transport unit with camera	
	eradle, tractor extension kit, tractor	
	storage rack , (6) standard knobby tires .	
	hand held auxiliary controller portable control	
	unit	
	8 inch monitor with VCR, microphone and	
	footage display .	
	compact portable reel with wheels with 300 m	
	single conductor Cable can	
	by placed directly over manhole and / or vehicle	
	mounted .	
	downhole rollers, single manhole setup including	
	top manhole roller, double roller	
	manhole hooks, extension pole, grab hook	
	bumper roller lowering rope.	
	hand held title generator	
	cables including test cable, cable kit,truck install	
	and AC power cord. 4 NO. Knobby balloon tires	
	Manuals & videos including tractor	
	manual,mainline	
	Operations manual and video, pig tail & light	
	bulb	
	replacement video.	
	high resolution in mini mainline camera and 45m	
	push cable with tractor	
	adopter tube for inspection of 75 to 300mm	
	pipeline	
03-01-01052	multi gas detector -4 gases suitable for sewer	20
	and confined space.	
03-01-01053	flow gages to measure flows in wastewater	50
	collection	
	systems. The equipment shall be capable of	
	collecting depth and velocity measurements at pre-set intervals such	
	as 1.0,2.0	
	2.5,5.0 and 10 minulce ieport and analyses flow	
	data in form of	
	hourly ,daily,weekly,monthly roords and	
	hydrograph.it shall	
	be able to perform remote equipment	
	diagnosties to confirm	
	sensor accuracy and select user- defined	
	reporting format	
03-01-01054	Rainfall gauges:	10
	the equipment shall be capable of	
	collecting,report and analyze	
	rainfall data and present the inform	

03-01-01055 COMPLETE SYSTEM FOR WIRELESS COMMUNICATION WITH (60)KM RANGE , WITH 2 COMPLETE BASE STATION , PORTABLE RADIOS AND ACCESSORIES ,MOBILE RADIOS AND ACCESSORIES , , FIXED RADIO STATION WITH ACCESSORIES, WITH SPARE PARTS FOR TWO OPERATING YEARS AND TRAINING 1