with the increasing usefulness of Photocopies and Computers as well as increasingly decreasing of manual works. In the backdrop of the situation HPPML is considering the project actively. Production Process FLOW CHART Thickner Chest Raw Materials Stock Chest Digester Refiner Hydropulper Blending Chest/Stock Chest Beater Pressure Screen Stock Chest Machine Chest Washing Portcher Cylinder Mould/Mc/Wire Stainer Press High Density Cleaner Dryer Turbo Separator MG/Dryer Sand Trap Calender C.C. Pit Pope Reel Centri Cleaner Rewinding Decker Thickner

From Page 6

which is widely used in almost every business, non-business, Govt, and non-Govt, organizations. Like other papers demand for offset paper is increasing substantially

DISTRIBUTION CHANNEL

The company will market and sell entire products through its agents. Agents will be employed after successful start of commercial operation.

Finished Godown

COMPETITIVE CONDITION IN BUSINESS A very few number of paper mills are producing Offset paper insignificantly in respect of country's demand. A sizeable quantity of specially paper like offset paper, bond paper. Kraft paper etc. are imported every year to meet the requirement of the country at the cost of a substantial amount of foreign exchange. Recognizing above scenario, the country needs proper utilization of installed capacity of the existing paper mills and establishment of new paper mills with large production capacity.

It reveals from statistics that the country has 26 Paper and Board Mills in existence. both in the private and public sector.

		Table -1	
SI. No.	Paper Mills in Bangladesh	Installed capacity (in M. Ton)	Maximum attainable capacity 70% (average (in M. Ton
1.	Karnaphuli Paper Mills	30,000	21,000
2.	Khulna Newsprint Mills	48,000	33,600
3.	North Bengal Paper Mills Ltd.	15,000	10,500
4.	Sylhet Pulp & Paper Mills Ltd.	30,000	21.000
5.	Bashundhara Paper Mills Ltd.	30.000	21,000
6	T. K Paper Mills Ltd.	30.000	21,000
7	Magura Paper Mills Ltd.	9,000	6,300
8.	Maq Paper Mills Ltd.	9,000	6.300
9.	Ashraf Paper Mills Ltd.	6,000	4,200
10.	Illiash Brothers Paper Mills Ltd.	18,000	12.600
11.	Dhaka Paper Mills Ltd.	3,000	2.100
12.	Supreme Paper Mills Ltd.	1.000	700
13.	O. D Paper Mills Ltd.	9.000	6.300
14.	Universal Paper Mills Ltd.	3,000	2.100
15.	Komola Ushuf Paper Mills Ltd.	15,500	10.800
16.	Sonali Newsprint Mills Ltd.	18,000	12.000
17.	Hossain Pulp & Paper Mills	7.500	5.250
18.	Bangladesh Paper Mills Ltd.	2.400	1,680
	Total	2,84,400	1,99,080
	Board Mills in Bangladesh		
1.	Sonali Paper & Board Mills Ltd.	18,000	12,600
2.	Hossain Paper & Board Mills Ltd.	10.000	7,000
3.	Hakkani Paper & Board Mills Ltd.	9,000	6.300
4.	Tongi Board Mills Ltd.	300	310
5.	Eastern Straw Board & Paper Mills Ltd.	200	140
BILLY &		30.	in the second of the second of
Acros.	Madina Board Mills	450	315
8.	Shannewaj Board Mills	180	124
	Total	38,160	26,712

Source: Bangladesh Chemical Industries Corporation. Major paper and board mills shown above were established in the decade 1980-1990. A few mills in public sector were established immediately after liberation. Though the sector seems have sufficient capacity to meet the local demand but it was very unfortunate that it could not attain capacity at desired level. Rather a very poor production capacity was performed for different factors. Besides performance are decreasing every year which may be shown in Table-3 below. Some of the existing mills are not at all in operation. In the year 1993-94 it reveals that only 41% of the attainable capacity was produced which was very insignificant against corresponding demand of the respective year.

The use and demand of paper:

There is a very limited number of paper mills those who are producing Offset Paper insignificantly in respect of country's demand.

In recent years, it is also observed that interest is growing day by day among the general public of using computers and as such demands of off-set paper is increasing substantially with the increasing usefulness of photocopies and computers. The consumption of these types of papers along with fax paper is also a significant

Bangladesh Chemical Industries Corporation has made a report of projected demand of paper for Third Five-Year Plan (Table-2).

THE RESERVE OF THE PARTY OF THE	Ti	ble-2				
Projected Demand of Paper (Unit in M. Ton)						
Paper all types except Newsprint	130,000	141,000	152,000	163,000	174,000	185,000
Newsprint	22,000	22,600	23,200	23,800	24,400	25,000
Paper Board	39,000	45,000	51,000	57,000	63,000	69,000
Total	191,000	208,600	226,200	243,800	261,400	279,000

The following table shows the local production of different grade papers (Table-3).

	T	able-3				
Grade wise local production of paper						
Paper & Paper Product	1993-94	1994-95	1995-96	1996-97	1997-98	
Writing	12,920	10,598	8,435	10,128	9,408	
Printing	25,083	21,915	24,897	22,422	22,400	
Packing & Others	6,285	7,223	8,497	7,290	6,400	
Newsprint	46,527	43,062	43,972	27,675	7,673	
Total	90,815	82,798	85,801	67,515	45,881	

It reveals from Table-2 that the projected demand for the year 1997-98 was 243,800 M.Ton as against the production achieved at only 45,881 M. Ton. It indicates that there is an unbelievable supply gap of 197,919 M.Ton. Only a considerable part of the supply gap can be meet by import of particular items.

	Table	4				
	Impo	rt				
(Taka in '000)						
Items	1993-94	1994-95	1995-96	1996-97	1997-98	
Paper, Newsprint, Kraft paper,		Name of the last				
Paper Board, Paper like paper	1,215,923	2,182,327	3,094,881	6,932,513	4,314,525	

From the scenario shown above it is obvious that the project HPPML will not face any problem to market its product in Bangladesh.

SOURCES AND AVAILABILITY OF RAW MATERIALS

The main raw materials of pulp are green and waste jute, jute yarn, cane caddies, paddy straw, rags and waste paper, which are locally available. The other raw materials are chemicals for pulp and paper those are available at local and foreign sources. Initially, the pulp will be procured from local market and also from foreign origin,

RELATIVE CONTRIBUTION TO SALES AND INCOME(PROJECTED)

Particulars	1" year	2 nd year	3rd year	4" year	5th year
Offset Paper	193,380	224,821	254,253	267,411	280,782
Writing & Printing Paper	126,576	147,155	166,420	175,033	183,785
Total Sales	319,956	371,976	420,673	442,444	464,566
VAT @ 15%	47,993	55,796	63,101	66,367	69,685
Net Sales	271,963	316,180	357,572	376,078	394,882
Net Profit	37,958	46,429	58,015	64,977	72,581
Net Profit Net Sales	13.96%	14,68%	16.22%	17.28%	18.38%

SOURCES AND REQUIREMENT OF POWER, GAS AND WATER

The trapplet a connected load of 2000 KW, which will be supplied by the 1814 by distribution of power. The project also requires electrical sub-station repaying of 2500 KVA to be installed in the factory site.

To operate boiler, the project requires about 2.00 million cubic meter of gas annually at their capacity. The required gas will be supplied by the Titas Gas Transmission & Distribution Co. Ltd. Water

A huge quantum of water is required for producing pulp and paper. The required water has to be obtained by installing two deep tube wells. The project also requires an underground water reservoir: overhead water tank and motor pump. MANPOWER

The requirement of technical, managerial and other staffs of the project are as

SI. No.	Particulars	No. of Employee	
01	Secretary		1
CE2	Manager		2
03	Officers & Engineers		26
111	Other staff		46
05.	Workers		1003
	Total -	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	100

DESCRIPTION OF PROPERTY

LOCATION OF THE PROJECT AND PROPERTY

PROJECT LOCATION The project is located at Mouza - Halim Khnarchar, P.S. Potia, Dist.- Chittagong on Chittagong -Cox's Bazar Highway where all infrastructural facilities like water, power, gas and internal roads are arranged. The project is set up on 5.71 acres of land. REGISTERED OFFICE/HEAD OFFICE Hakkant is a prominent group in Chittagong. Group head office and registered office of HPPML is at their own 3 storted building on the main road of Pahartoli, bearing holding no. 2. North Pahartoli. Chittagong.

LAND AND LAND DEVELOPMENT The land is situated at Mouza - Halim Khnarchar, P.S.- Potia, Dist.- Chittagong. measuring area of about 5.71 acres, where all infrastructural facilities like water, power, gas, electricity and internal roads are available. The cost of land is amounting to Tk.8.00 million including land development. The details of land and land development is as follows:

Details of Land and Land Development: 5,000,000.00 Value of land 500,000.00 Tk. Value of stamp 275,000.00* Tk. Registration charge Tk. Soil & sand for land development Tk. 1.846.450.00 Including labour expenses 7.00.000 cft. Tk. Earth cutting for Road & labeling 325.500.00 2.10.000 cft. X 1.55 per cft. Tk. 53,050.00 Tk. Labour & Suppression 8,000,000,00 Tk.

BUILDING AND OTHER CIVIL WORKS The total construction cost of factory Building including boundary wall, water reservoir, electrification and sanitation has been estimated at Tk. 325.51 lac. Factory building is designed by Union Technical Consult Ltd., House#G/22, Pallabi Extension. Dhaka-1221. There is no relationship between directors and Union Technical Consult Ltd.

Details of Building & Other Civil Works:

	Machine House. R.C.C Framed structure	(€ Tk. 750/- sft.	Tk. 99.96 lacs
	with R.C.C. roof. Area 261'-4" x 51'-0"=		
2.	13.327.83 sft. Workshop R.C.C. Framed structure with	(a Tk. 590/- sft	Tk.21.39 lacs
	R.C.C Roof. Area 70'-2" X 51'-		
3.	5.625.17 sft. Laboratory, Office and Store	@ Tk. 550/-sft	Tk. 42.07 lacs
	Building (One storted) R.C.C. framed structure. Area: 255-0"X 30'-0"= 7.650 sft.		
4.	Boiler House, R.C.C. Framed structure.	(a Tk. 500/- sft	Tk. 11.30 lacs
	Area: 61'-8"X 36'-8"= 2.264.44		
5.	sft. Finished Godown Building. R.C.C. Framed structures.	@ Tk. 550/- sft.	Tk. 28.89 lace
	Area : 101'-8"X 51'-8"=		
6.	5.253.28 sft. Power House Building, R.C.C. Framed	@ Tk. 550/- sft.	Tk. 4.13 lacs
	Structure. Area: 25'-0"= 30'-		
7.	0"= 750 sft. Chemical Storage Building. R.C.C. Framed. Area: 51'-8"X	(a Tk. 550/- sft	Tk. 5.92 lace
8.	20'-10"= 1,076.29 sft. Hydro Pulp Building. R.C.C Framed structures.	(a Tk. 550/-sft.	Tk. 8.76 lace
	Area: 51'-8" X 30'-10" = 1.593 sft.		
9.	Bitter Building, R.C.C. Framed structures. Area: 45'-10" X 91'-8" = 4.201.24 sft.	(# Tk. 550/- sft.	Tk. 23.11 lac
10	Construction of Digester House, R.C.C. Framed structure (single storied).	@ Tk. 550/- sft	Tk. 12.61 lac
	Area: 91'-8"X 25'-0" = 2,291.75 ×	11.	
11	Washing PowerHouse, R.C.C. Framed structures.	(a Tk. 550/- sft	Tk.18.07 lac
	Area: 91'-8" X 35'-10" - 3.284.53 sft.		
12.	Construction of Pump House, R.C.C.	@ Tk.550/- sft.	Tk. 1.53 lac
	Framed structure with R.C.C. roof (single Storied) Area: 16'-8'X 16'-		
13.	8°=277.88 sft.	W. TI. CCO.	T1. 0.1.10.1
	Construction of Raw Materials Godown with R.C.C. Framed structure (one storled). Area:	# Tk. 550/- sft	Tk. 24.86 lac
14.	101'-8" X 44'-8" = 4.519.92 sft. Constructions of labour Tollet (one storted). Area:36'-6"X 15'- 0"=549 sft.	(# Tk. 440/- sft	Tk.2,42 lac
	Construction of Guard Room. security Office, Labour Office.	(a Tk. 400/- sft	Tk.2.13 lac
15.	Guest Room and		
	Guest Room and Totlet.Area:44'-6"X12'= 534 sft		
Boundo	Totlet.Area:44'-6"X12'= 534 sft arv Wall Brick Work -14.297 cft.	@ Tk. 80/- cft.	
Boundo a. b.	Totlet.Area:44'-6"X12'= 534 sft irv Wall Brick Work -14.297 cft. Platn C.C. Work -814 cft.	@ Tk. 75/- cft.	Tk.11.44 lac Tk.0.61 lac
Boundo a. b.	Totlet.Area:44'-6"X12'= 534 sft		Tk.11.44 lac Tk.0.61 lac Tk. 0.49 lac
Boundo a. b.	Totlet.Area:44'-6"X12'= 534 sft arv Wall Brick Work -14.297 cft. Plain C.C. Work -814 cft. Brick Soiling -3.257 sft. ad Tank 20.000 Gallon	@ Tk. 75/- cft.	Tk.11.44 lac Tk.0.61 lac Tk. 0.49 lac Tk. 5.00 lac

PLANT, MACHINERY AND EQUIPMENTS The capital machinery of Japan origin worth at Tk.1.198.25 lac have already been procured locally and transferred to company vide vendors agreement dated 30 December 1996, and machinery of EEC origin for an amount of Tk.339.19 lac have been imported. According to IPO Rules 1998 of Securities and Exchange Commission a survey was performed by SGS Bangladesh Limited. According to survey report the muchinery of Japan origin are unused/new and apparently in sound condition. The machineries are likely to have an estimated economic working life of 20(twenty) years. The machinery of EEC origin are procured in second hand condition. A boiler amount to Tk.17.89 lac was also procured locally in second hand condition. In addition to the above, an amount of Tk. 180,99 lac is estimated to be incurred for local machinery and installation purpose.

Total:

Capacity with

Complete with

Bearing

10 metres

0.5m3/min

: Ball Bearing

: Sole Plate. Casting.

Tk. 325.51 Jacs

Details of Plant, Machinery and Equipment: A. Machinery of Japan origin (already procured)

Structural, Electrical etc.)

S1.#	Description of		Value/Price
	Machinery/Q ty.		
1.	GLOBE DIGESTER	1 NO	TK. 8.311,125.00
	Туре	: Globe Rotary Type Motor 11 Kw X 4P-2	
	Diameter	: 4267 mm	
	Capacity	: 4207 mm	
	Rotervspeed	: 0.5 pm	
	Body	: Welded mild steel.	
		pressure limit 9Kg/CM	
	Journal	: Cast Iron	
	Bearing	: Gun metal plain type	
	Drive system	: Major gear pinion.	
		Intermediate gear pinion Shaft bearing	
	Complete with	: safety valve. Pressure	
	Comparis with	Gauge, Steam Joint.	
2.	GLOBE DIGESTER =	1 NO	TK. 5,376,007,00
	Type	: Rotery Globe Type	
		(Motor 3.7 Kw X 4P-1)	
	Diameter	: 2438 mm	
	Capacity	: 7.5 m	
	Roteryspeed	: 0.5 rpm	
	Body	: Welded mild steel.	
		Pressure limit 9Kg/CM	
	Journal	: Cast Iron	
	Bearing	: Gun metal plain type.	
	Drive system	: Major gear pinion.	
		Intermediate gear	
	Complete with	Pinion. Shaft bearing : safety valve. Pressure	
	Complete with	Gauge. Steam joint	
- 3.	DISC	1 SET	TK. 1.661,586.75
	REFINER =		1101,000,77
	Type	: Disc type	
		(Motor 37 KW X 4P-2)	
	Disc.	: 610 m dia. Special	
		Cast Iron.	
	Reg.	: 1450 rpm	
	Drive	Directly connected	
	Bearing	: Spherical Roller Bearing	
	Complete with	: Casing cover, frame, shaft.	
4.	DISC	1 SET	TK. 1,954,904,25
	REFINER =	N	
	Type	: Disc. Type	
	Disc	(Motor 75 KW X 6P-1)	
	Disc.	: 700 m dia. Special Cast Iron.	
	Reg.	: 1000 rpm	
	Drive	: Directly connected	
	Bearing	: Spherical Roller Bearing	
	Complete with	: Casing cover, frame, shaft.	
Tr.	JANSON	2 SETS	TK. 985,125,00
	SCREEN =		
	Type	: Janson Type (Motor 3.7 KWX 4P-1)	
	Screen Plate	: 1000m X 2000m Stainless	
	Screen Plate	Plate with hole.	
	Consistency	: 0.5-1 %	
	Rev.	: 1450 rpm	
	Body	: Welded Mild Steel	
	Support	: Rubber cussion type	

Spherical roller Bearing

Concrete(to be made)

Bearing

Vat

TUS					Che Haily Star
SUPER CLONE	I SETS	TK. 1.173.825.00	19.	unner, Shaft 125 MM HIGH PRESSURE PUMP 2 SETS	TK. 222.000.00
Device) Type	: Volute type			(Motor 22 KW X 4P-1)	
Model Capacity	: K-2000(Patent 313401) : 2000 L/Min			Type : Centrifugal Type Bore : 150 mm X 125 mm	
Stuff food pressure	2.5-3.5 Kg/ cm			Rev. 1.450 rpm Head : 30 metres	
Junk Box	: Special glass & Cast Iron : Cast Iron : 3.7 KW X 4P			Capacity with : 2.0m3/min Bearing : Ball Bearing Complete with :Sole Plate, Casting.	
SUPER CLONE	I SET	TK. 499.500.00	20.	Shaft, Runner 100 MM HIGH PRESSURE PUMP = 1 SETS	TK. 97.819.00
(Cleaning Device) Capacity	: 500 L/Min			(Motor: 15 KW X 4P-1) Type : Centrifugal Type Bore : 150 mm X 125 mm	
	: As above			Rev. : 1.450 rpm Head : 30 mm	
SUPER CLONE	I SET	TK. 654,900.00		Capacity : 0.5 m3/min Bearing : Ball Bearing	
(Cleaning Device) Capacity	: 1000 L/Min		21.	Complete with : Sole Plate. Casting. Shaft. Runner 80 MM HIGH PRESSURE PUMP = 2 Si	ETS TK.
	: As above			(Motor : 11 KW X 4P-1)	188.700.00
	1 SET	TK.2.541.345.00		Type : Centrifugal Type Rev. : 1.450 rpm	
Capacity Runner	: Vertical Batch type : 2.6 m : 480 rpm Carbon Steel for			Head : 30 mm. Capacity : 0.5m3/min Bearing : Ball Bearing	
Name.	Uredium structural use Collapsible Type.			Complete with : Sole Plate, Casting, Shaft, Runner	
Tube Stand Frame	: 1800 mm dia Steel Plate : Steel Pipe(4 Pcs.)		22.	STRAW BELT I SETS CONVEYER =	TK. 291.375.00
Bearing Shaft Strainer	Spherical Roller Bearing. Steel Plate Steel Plate with hole			(Motor : 3.7 KW X 4P-1) Belt width : 610 mm	
Motor	: 5.7 Kw X 6P-1 2 SETS	TK. 4.105,335.00		Conveyer Speed : 30m/min Main Frame : Welded Gas Pipe	
Type Capacity	: Ordinary type : 800 lbs.			Conveyer Roll : Steel Pipe Drive Roll : Steel Pipe Return Roll : Steel Pipe	
Ply Bar Roll Dia metre	: 120 rpm : 1220 m dla X 122 m long		23.	Return Roll : Steel Pipe Belt Stretcher : Screw type BELT CONVEYER = 3 SETS	TK. 792.540.00
Washing Drum	: 1220m X 1400m long wooden make			(Motor : 2.2 KW X 4P-1)	
Tube	: Concrete(To be made) : Steel			Belt : 610 mm width x 15	
Fly Bar Roll shaft Fly Bar Bed Bar	: Carbon Steel			Belt Speed : 30m/min Main Frame ; Welded Gas Pipe	
Fly Bar Roll Moving Device	: Carbon Steel : Hand Type			Conveyer Roll : Gas tube Bearing : Ball Bearing	
Washing Drum Shaft Motor	: Steel : 22 KW X 8P-2			Drive Roll : Steel Pipe Return Roll : Steel Pipe Belt Stretcher : Screw type	
DRYPART =	1 SET	TK. 37,323,750.00	24.	RAG BELT 2 NOS CONVEYER =	TK. 582.750.00
I" Dry Part	: 1524mm X 2400mm-8 Pcs.			(Motor : 3.7 KW X 4P-1)	
2 st Dry Part Paper Dryer	: 1524mm X2400mm- 8 Pcs. Pressure-4 Kg./cm-			Type : Inclined type Belt : 610 mm width X 15	
Paper Oryer	l set Cell-Semi Steel,			mtrs. Conveyer Speed : 30m/min	
	Grind Finished Drain Device			Main Frame : Welded Gas Pipe Conveyer Roll : Steel Pipe	
Dryer Bearing	Cyphone type : Spherical Roller-32			Bearing : Ball Bearing Return Roll : Steel Pipe Belt Stretcher : Screw type	
Dryer Gear	Pcs. Bearing : Cast Iron Blade-16		25.	Belt Stretcher : Screw type 150 MM BACK 3 SETS WATER PUMP =	TK. 198,967.00
Steel Joint .	Pcs. : Rotary Joint - 16			(Motor: 5.5 KW X 4P-1) Type: Centrifugal Type	
Canvas Stretcher	Pcs. : Cast Iron-4 sets			Bore : 100 mm Rev. : 1.450 rpm Head : 10 mm	
Doctor Carrier Ventilator Hood	: Steel Plate Blade : Welded Steel Plate- 1 set			Capacity : 1.1m3/min Bearing : Ball Bearing	
Motor Windo volume	: 7.5 Kw X 4P-1 : 500m3/Mln.			Complete with : Sole Plate, Casting Shaft	
Revolution Bore	: 1450 rpm : 900mm dia		26.	MIXER(ALKALL) = 1 SET	TK. 388,500.00
(8 Station) Chilled	1 SET	TK. 41.538,975.00		(Motor-11 KW X 6P-1) Type : Horizontal type	
Roll(Over75) Bottom Roll-				Casting : 300 mm dia X 350 mm dia	
407mm X2140mm2)				Shaft X 1.500 mm long Welded stainless	
2 [™] Bottom Roll- (336mmQ X 2140mm2)	: 1 Pc.			Bearing plate Spherical Roller Bearing	
Middle Roll- 252mmQ				Head Pipe : Gas Pipe Nozzle : Stainless Steel	
X 2140 mm2 Top Roll-356mmQ	: 5 Pcs.		27.	Rev. : 300 rpm MIXER(Hypo Mixer)	TK. 391,275.00
X 2140 mm2 Sole Plate - Cast	: I set			= 1 SET (Motor- 11KW X 6P-1)	
Frame –Welded				Type : Horizontal Casing : 300 mm dia X 350	
Steel Plate Upper Frame	: I set			mm dia X 1.500 mm long.	
Roll moving device (Motor-3.7 KW X				Stainless steel pipe Shaft Steel pipe & steel	
Warm Gear Drive Doctor Cast Iron	: 8 sets			Shaft Steel pipe & steel stainless. Lining on liquid	
Body Steel plate blade				Bearing : Spherical Roller	
Pressure Device Lever Type	: 1 set	TV 1 001 107 00		Head Pipe : Gas Pipe	
POPE REEL = Drum	: Semi- Steel Grinded finished	TK, 1.061.437.00	28.	Rev. : Stainless Steel Rev. : 300 rpm DRAIN PUMP = 1	TK. 195.637.00
	916mm diaX 2140mm3-Pc			SET (Motor-3.7 KW X	
Bearing	: Spherical Roller Bearing			4P-1) Type : Vertical Type	
Sole Plate Frame	: Cast Iron made - 1 set : Cast Iron made - 1			Bore : 100 mm X 80 mmQ Rev. : 1.450 rpm Head : 13 metres	
Primary Arm	set : Cast Iron made		29.	Capacity : 0.3m3/min STEAM DRAIN	TK. 146,654.00
	Air pressure type – 1 set			PUMP = 1 SET (Motor: 3.7 KW X	
Secondary Arm	: Cast Iron made : Air pressure type - 1 set			4P-1) Type : Centrifugal Bore : 100 mm dia X 40	
Grinding Roll	:165mm diaX2140mm2-10 Pc			mm dia Rev. : 1.450 rpm	
Roll Shell Bearing	: Steel Pipe :Gun metal made.			Head : 20 mm Stole plate : Cast Iron	
VERTICAL	plain type 1 SET	TK. 1.172.937.00		Bearing : Ball Bearing Shaft : Steel	
SCREEN = Type	: Vertical Centrifugal		30.	Runner : Gun Metal NASH PUMP = 2 SETS	TK. 342.102.00
	(Motor-11 KW X 6P-			(Motor 3.7 KW X 6P-2) 150 mmQ Vacuum Degree : 4400m/Hg.	
Screen Cylinder	: 610mm dia X 610mm long			Wind Volume : 15m3/min Rev. : 550 rpm	TV 200 070 00
Rev Screen Cylinder	: 300 rpm : 5.5 mm plate with hole		31.	HOISTER = 1 NO (Lifting vehicle) BAILING PRESS = 8 NOS.	TK. 1,172,715.00
Scrapper	: Hand Chromed Cast Iron		33.	LABORATORY EQUIPMENT	TK. 1.359,113.00
Rotar	; Steel Shaft, Cast Iron Rotar		a) b)	Analytical Balance = 1 s Quadrant Scale = 1 s	et
Sole HIGH DENSITY	: Cast Iron 5 SET	TK, 2.941,500.00	c) d) e)	Bursting Strength Tester 9 Mullen Type = 1 se Electrical Moister Tester(aqua boy) = 1 se Tearing Resistance Tester(Elemen dorf = 1 se	et
TILTER = Capacity	: 15 T/day (Motor3.7 KW X 4P-		n	type) Brightness. Opacity & Gloss Tester = 1 se	
Intel Consistency	1) :0,8-1.2%(Motor-1,5		g) h)	PH Indicator = 1 so Cobb Tester = 1 so	et
Outlet Consistency	KWX P-1) : 10-12%		1) 1) k)	Thickness Micro Tester = 1 se Bearing 7 Freeness Tester(S.R) = 1 se Consistency Determination Apparatus = 1 se	et
Drum	: 2000mm dia 1500 mm long Welded Mild Steel		11	Combustion Furnace For Ash Contents = 1 so	
Screen Plate Cylinder	: 5/5 with hole		В.	Machineries of German origin (already procured)	
Bearing	: Spherical Roler Bearing : Mild Steel with ew		a)	C & F value: Drier complete set. Press(1",2", 3") -1	Tk. 29.676,310.00
Yall	coat Inner painting			Size Press with Chemical size Kitchen complete - 1	
Screw Conveyer Shower pipe	: Welded with steel : Brass Pipe			Rewinder complete set - 1 Sheet Cutter complete set - 1	set
CONVEYER PUMP		TK. 152,625.00	bl	Flow Box with wire part complete set Mechanical. Electrical Drives for Driers, etc L/C Charges	Tk. 348.645.00
(Motor 5.5 KW X 4P-1)			c) d)	Bank interest, insurance and C&F exps. Duty Carrying cost, others etc.	Tk. 839.341.00 Tk. 3.054.395.00
Type Bore	: Centrifugal Type : 100mm		C.	Sub - Total Details of Erection & Installation	Tk. 33.918,691.00
Rev. Head Capacity with	: 1.450 rpm : 10 meters		11	Foreign Technician German 3 persons for 1 year @ DM. 5785.00 per	
Capacity with Complete with	Sole Plate. Casting,Shaft			month per head total DM. 2.08.260.00	Tk. 56,83,000.00
Bearing Runner	: Ball Bearing : Gun Metal		U)	Local Employees a) Technician and General Staff for one year	Th. 2000 0000 00
100 MM CONVEYER PUMP	6 SETS	TK. 832,500,00		# 2.200.00 per month per head 15 persons	Tk. 396,000,00
(Motor : 5.5 KW X 4P-1)				b) Security Staff for one year 9 persons or 1.950.00 per month per head	Tk. 2.10,000.00
Type Bore	: Centrifugal Type : 100 mm		D	Sub - Total Cost of Fittings, Fixing for Machinery Erection	Tk. 62,89,000.00
Rev Head	: 1,450 rpm : 10 metres		D. ()	Cost of Fittings, Fixing for Machinery Erection M.S. Pipe-6" 5000 rft = # 400.00 M.S. Pipe-4" 6000 rft # 400.00	Tk. 20,00,000.00 Tk. 24,00,000.00
Capacity with Complete with	: 1.1 m3/min : Sole Plate, Casting, Shaft		ui) iv)	Gate Valve-6" 100 Nos. (a 2500.00 Gate Valve-4" 200 Nos. (a 1500.00	Tk. 2.50,000.00 . Tk. 3,00,000.00
Bearing Runner	: Ball Bearing : Gun Metal		vi vi)	Welding Rod. 1000 Pack. # 260 Flange Bend. Elbow. Fee, Rubber Sheet, etc.	Tk. 4.00,000.00
80 MM CONVEYER PUMP a 1 Motor : 3.7 KW-X		TK. 777.000,00		Sub - Total	Tk. 56,10,000.00
4P-1) Type	: Centruogal Type		E. 1)	COST OF BOILER Package type with fire tubes Gas fire Bioler.	Tk. 36,00.000.00
Bore Rev.	80 mm 1,450 rpm			Kg P/hour, made in UK. 2 Nos. to Tk.	

2 Nos. Package type Auto Burner. Panel

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Tk. 12.00.000.00

18,00,000,00

Board