

# Scientist suggests manifold uses of neem

Use of neem seeds and leaves in controlling crop pests could substantially reduce the nation's continued dependence on imported synthetic pesticides and at the same time save the environment.

According to a preliminary analysis Bangladesh could produce 3000 tons of neem oil and 11,000 tons of neem cake annually from the estimated half a million neem trees grown in unmanaged condition throughout the country.

Talking to BSS reputed Entomologist Dr Manjur Chowdhury said 3000 tons neem oil could provide adequate crop protection for 3.05 million hectares of rice or around 30 per cent of the total rice acreage in Bangladesh. An additional of 0.61 million hectares could be protected by using neem cake.

He said while neem largely being ignored in its native home in Bangladesh, scientists in other countries vigorously working to develop economically and technically feasible methods to extract natural pesticides from neem seeds and leaves.

Neem is an ever green tree that starts producing peanut-sized fruits in 4-5 years and may live for 200 years. When

fully grown the trees attain heights 20-25 feet with a spread of 15-33 feet. Mature trees produce 65-110 pounds of fruits annually.

Recent scientific studies have established the effectiveness of neem as an excellent pest control agent which is being used in medicine and plant protection in the sub-continent traditionally.

Dr. Chowdhury said the developed nations were more interested in neem as neem products, non-poisonous to man and other warm blooded animals, have diverse deleterious effect on pest insects, do not pollute the environment and have no side effects on natural enemies of pests.

He said neem pesticides could effectively be used in controlling mosquito menace in the urban areas without disturbing the environment.

Unlike the lethally toxic actions of most synthetic pesticides, active ingredients of neem seeds and leaves repel or inhibit the feeding activities of the pest insects, scientific studies said.

Scientists have also found that neem contains some com-

plex chemicals which causes a profoundly devastating effect on the insects development process from larval condition as well as their reproductive processes and activities.

In laboratory and field trials conducted so far, neem extract showed adverse effect on at least over 100 pest species including several important rice pests like leafhoppers, brown planthopper, gall midge and leaf folder.

Several independent studies also showed that application of neem cake actually increases crop yield by inhibiting a denitrifying soil bacteria complex and ensuring more efficient use of nitrogen fertilizers by rice plants.

Dr Chowdhury said researchers have developed various methods for extraction of pesticidal chemicals from neem seeds and leaves and one of these requires only a few simple equipment such as a milling facility and a mechanical strainer. This technique can easily be adopted for a small scale pesticide production factory, he added.

He said manufacture of pesticides from neem in small scale

production facilities could generate a range of employment opportunities for the rural unemployed and under-employed.

Neem is fast growing tree of semi-arid areas. It is highly drought resistant and improves the soil condition. It is valued for its hard and durable timber. An oil compound extracted from its seeds used in face powder, hair lotion, soap and tooth paste.

It is evergreen and planted as an avenue tree particularly in areas where there is scanty of hardly any rainfall in Saudi Arabia now a big plantation of 'neem' trees, planted at the suggestion of late President Ziaur Rahman is a pleasing greenery to the 'hajjis' in the midst of the vast desert.

Since neem needs hardly any water for its maintenance after its plantation is ideally suited for afforestation in the vast tracts of arid land in the northern region of Bangladesh called 'Barendra'. This is an urgent need of the country in order to stop the desertification process which is turning a sizeable portion of fertile land barren every year, the concerned scientists said.

# Number of bankruptcies in Japan drops

TOKYO, June 16: The number of bankruptcies in Japan dropped 3.9 per cent from a year earlier to 1,113 failures in May, the first decline in 32 months, credit research company Teikoku Data Bank Ltd said Tuesday, reports AFP.

The figure, which measures bankruptcies involving liabilities of at least 10 million yen (95,000 dollar), was also down 3.6 per cent from April.

But liabilities increased 15.7 per cent from a year earlier to 661 billion yen in May, almost double the April figure of 338 billion yen and the number of big corporate failures with liabilities of at least one billion yen

rose eight per cent to 94 cases, the highest level so far this year.

"We can see signs of a gradual recovery from a serious slump," a Teikoku official said. "But it's still too early to declare that the slump is over because liabilities are still very high."

The agency forecast that bankruptcies might even resume rising in June from the year-earlier month.

In May, bankruptcies in the manufacturing sector fell 5.2 per cent to 182 cases, while those in the wholesale sector declined 11.9 per cent to 223 cases.

# Shipping Intelligence

## CHITTAGONG PORT

Berth position and performance of vessels as on 16th June, 1993.

Berth No	Name of Vessels	Cargo	L. Port	Local Agent	Date of Arrival	Leaving
J/1	Santa Margherita	GI	Sing	Prog	15/6	23/6
J/2	Vishva Umang	Cement	Visa	PSAL	23/5	22/6
J/4	Orsha	Cement	Sing	USTC	06/5	17/6
J/5	Eastern Mars	GI	Hong	Prog	12/6	18/6
J/6	Banglar Sampad	Repair	Mong	BSC	07/6	21/6
J/8	Alan Tabah	Sugar (P)	Tutu	MSA	10/6	16/6
J/13	I Yamburenko	Cont	Sing	CT	14/6	17/6
MPB/2	Alkyona	Cont	Sing	RSL	12/6	16/6
CCJ	Alkyona (Ebb)	C Clink	Bukt	UMAL	30/5	22/6
CSJ	Estratios-G	Idle	Ant	BSL	20/5	18/6
TSP	Portatitissa	R Phos	Safu	SSST	14/6	22/6
RM/4	Lily	Cement	Sing	Litmond	06/6	16/6
DDJ	Banglar Jyoti	Repair	BSC	R/A	21/6	
DD	Endurance Sea	Repair	Agaba	CLA	25/1	22/6
DDJ/1	Tug Y Success/Labroy-90	GI	Sing	ILA	31/1	07/8
DDJ/2	Banglar Asha (Ebb)	Repair	BSC	R/A		25/6
CUFJ	Sea Rhapsody	Urea	Visa	PSAL	04/5	19/6

## VESSELS DUE AT OUTER ANCHORAGE

Name of Vessels	Date of Arrival	Last Port	Local Agent	Cargo	Loading Port
Banglar Kiron	18/6	Mong	Lams	For Repair	
NGS Express	16/6	Sing	BDSHIP	Cont	Sing
TT Anax	16/6	Puja	OTL	For Scraping	
Ocean Voyager	17/6	Pada	AML	Cement	
Safina-e-Ismail-2	19/6	Mong	ASL	For Bukering	
Lena	17/6	Yuko	Prog	P. Materials	
Trans Asia	20/6	Yang	Cross	GI	
Rafiah	18/6	Niko	Dynamic	M Seeds	
Al Salma	18/6	Rang	ASLL	GI	Japa Kore
Banglar Kallol	18/6	Buss	BSC	GI	
Bharatendu	18/6	Mong	SSL	GI	Dundee Harb
Shaplaeverett	18/6	Sing	EBPL	GI	
Eponyma	19/6	Sing	CTS	Cont	Sing
Keban	18/6	Dubai	BSC	Steel Billets	
Banglar Robi	18/6	Sing	BSC	Cont	Sing
Samudra Samrat	20/6	Mong	SSL	For Dry Docking	
Continent-1	20/6	Pera	CLA	GI	
NGS Ranger	20/6	Sing	BDSHIP	Cont	Sing
Knud Jespersen	20/6	Sing	CT	Cont	Sing
Mary M	20/6	Sing	USTC	M Seeds	
Sam He	21/6	Seacost	GI		
Qing He Cheng	21/6	S Hai	BDSHIP	GI	
Fong Yun	21/6	Sing	BDSHIP	Cont	Sing
Kod Futuro	22/6	Sing	AML	GI	Mom Mapu
Meng Lee	22/6	Sing	AML	Cont	Sing
Iveyerett	24/6	Sing	EBPL	GI	
Banglar Moni	24/6	Sing	BSC	Cont	Sing
Samudra Rani	24/6	Sing	BSL	GI	
Tin Ghi Shan	25/6	Sing	Kharsons	Cement	
Andrian Goncharov	25/6	Sing	CT	Cont	Sing
Ingenuty	25/6	Sing	RSL	Cont	Col
Neabudka	27/6	Sing	USTC	Cement	
Sound Royal	30/6	Sing	IBA	GI	

## VESSELS AT KUTUBDIA

Name of Vessels	Cargo	Last Port	Local Agent	Date of Arrival
Fong Shin	Cont	Sing	BDSHIP	15/6
Arktis Island	GI	Sing	BSL	15/6
Kota Buana	Cont	Sing	RSL	15/6
Global Jupiter		P Kan	OTL	15/6
Petr Shmidt	15/6	CSBO	Kar	Seacom
Ussuriysk R	Tallow	Brez	CT	16/6

## VESSELS NOT READY

Ronjay Choomie	18/6	Cement	Sing	USTC	02/6
Agva	18/6	Cement	Long	PSAL	12/6

## VESSELS AWAITING INSTRUCTION

Chipam	Cement	Titiz	PSAL	14/4
Banglar Shourabh			BSC	R/A (13/6)

## VESSELS NOT ENTERING

Stern	Scraping	Mong	NFT (P)	09/4
Promitheas	Scraping	Sing	ARL	05/6

## MOVEMENT OF VESSELS FOR 17.06.1993

Outgoing	Incoming	Shifting
J/4 Orsha (Cement)	J/13NGS Express (Cont)	DD Endurance
J/13 I Yamburenko Cont	J/7Lena (GI)	Sea To J/10

The above were the Wednesday's shipping position and performance of vessels of Chittagong Port as per berthing sheet of CPA supplied by HRC Group, Dhaka.

# Exchange Rates

The following are the Commercial Banks' BC selling and TT (C), OD transfer buying rates for some selected foreign currencies effective on June 17.

(Figures in Taka)

Currency	Selling B.C.	T. T. (C)	Buying OD Transfers
US Dollar	39.9326	39.7087	39.4556
Pound Sterling	60.4952	60.1799	59.8177
DM	24.2633	24.1200	23.9662
FF	7.2132	7.1689	7.1232
S Riyal	10.6740	10.6142	10.5465
D Oulders	21.6320	21.4990	21.3620
S Kroner	5.4422	5.4080	5.3735
Singapore Dollar	24.8183	24.6791	24.5218
UAE Dirham	10.9096	10.8485	10.7793
Kuwait Dinar	133.5546	132.8058	131.9593
Indian Rupee (AMU)	1.2693	1.2636	1.2573
Pak Rupee (AMU)	1.4721	1.4655	1.4581

Authorized dealers will apply T C clean buying rate for purchase of remittances of Bangladeshis working abroad.

Note: AMU—Asian Monetary Union.

# Dhaka Stock Prices

At the close of trading on June 16, 1993

## Business rises

Business on the floor of Dhaka Stock Exchange (DSE) showed a moderate rise on Wednesday.

Both the turnovers in creased. Volume reached 15867 issues from 11600, a rise of 36.784 per cent. Value made a gain of 9.448 per cent. It increased from Taka 1008495.25 to Taka 1102777.50.

The DSE Composite Index continued to rise. It reached 387.7267 from 386.9789 bringing a 0.747 point gain.

A total of 44 stocks were traded on the day. Gainers continued domination on the floor. They outnumbered losers by 20 to 11 while others traded at previous rates.

## DAY'S TRADING AT A GLANCE

DSE Share Price Index	387.7267
Market Capitalisation (TK)	11,084,979,076.00
Turnover in Volume	15867
Turnover in Value (TK)	1102777.50

Company's name	Previous price Tk	Closing price Tk	Change (absolute) Tk	Change (%)	Number of share sold
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## Gains (20)

Rupali Bank	69.50	70.00	0.50	0.719	80
UCBL	91.33	95.00	3.67	4.018	5
4th ICB M Fund	151.00	152.00	1.00	0.662	50
BGIC	180.10	181.39	1.29	0.716	320
Peoples Insurance	300.00	305.00	5.00	1.666	450
United Insurance	192.00	192.50	0.50	0.260	20
Atlas Bangladesh	43.43	43.50	0.07	0.161	300
B Lamps	235.00	240.00	5.00	2.127	5
Bengal Carbide	250.00	251.47	1.47	0.588	17
Singer Bangladesh	1510.00	1516.06	6.06	0.743	52
Dhaka Vegetables	78.00	79.36	1.36	1.743	55
Froglegs Export	2.75	3.00	0.25	9.090	50
B Oxygen	67.00	68.00	1.00	1.492	6535
Saham Textile	71.17	71.83	0.66	0.927	650
Beximco Pharma	425.00	425.60	0.60	0.141	25
Kohinoor Chemical	64.87	65.00	0.13	0.200	5
Paper Processing	17.50	18.50	1.00	5.714	30
Bata Shoe	38.00	38.48	0.48	2.210	800
Beximco	20.67	20.70	0.03	0.145	300
Monno Ceramic	291.75	292.00	0.25	0.085	15

## Losses (11)

B Autocars	66.00	65.00	1.00	1.515	285
Quasem Drycells	9.90	9.60	0.30	3.030	500
NTC	212.00	205.00	7.00	3.301	25
Zeal Bangla Sugar	6.97	6.76	0.21	3.012	1800
Eagle Star Textile	15.60	15.30	0.30	1.923	1000
Modern Dyeing	34.75	34.38	0.37	1.064	20
Rahim Textile	89.00	88.00	1.00	1.123	5
Pharma Aids	187.29	185.75	1.54	0.822	120
Eagle Box	18.50	16.00	2.50	13.513	500
Ctg Cement	213.00	210.25	2.75	1.291	80
Milon Tannery	14.00	13.50	0.50	3.571	50

## Traded at previous rates (13)

Shares: National Bank (205), 3rd ICB M Fund (55), 6th ICB M Fund (10), Metalex Corp (10), Alpha Tobacco (1000), BTC (1), Froglegs Export (50), Padma Textile (60), Rahman Chemicals (20), Beximco Infusion (50), GQ Ball Per (105), Usmania Glass (10).  
Debtenture: Beximco Infusion (2).

## DSE SHARES AND DEBENTURES

Company	FV/ML (Taka)	Closing Rate (Taka)	Northern Jute	10/50	NT
Shamser Jute	100/5	100.00			
Specialised Jute	100/5	100.00			
Shree Pukur Jute	100/5	135.00			
Sonali Aash	100/5	115.00			

## BANKS (11)

Al Baraka Bank	1000/1	900.00			
A.B. Bank	100/5	170.00			
City Bank	100/5	355.00			
IDLC Ltd	100/20	227.00			
I.F.I.C	100/5	173.78			
Islami Bank	1000/1	1705.00			
National Bank	100/5	93.00			
Pubali Bank	100/5	100.00			
Rupali Bank	100/5	70.00			
U.C.B.L	100/5	95.00			
Uttara Bank	100/5	87.00			

## INVESTMENT (08)

LCB	100/5	100.00	
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