



**KE-JAL  
TECHNOLOGIES**



Shop no. 2143, Ahir falia, Village Mohangam, Di. Valsad, Ta umbergaon, Mohangam: 396191  
TOTAL RANGE OF WATER TREATMENT PLANT & CHEMICALS & SERVICE.

E-MAIL :- kejaltechnology@gmail.com Mo. 9427007018 GST : 24AZQPP9087M1Z9

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To,

Date : 26/09/2023

YSK laboratories private limited  
Plot no-A-595, MIDC Industrial area,  
Mahape, navi Mumbai,  
Maharashtra 400710

### **Quotation of UF & 500 LPH & 250 LPH R O PLANT**

Respected Sir,

This is with reference to the aforesaid subject. We are very much thankful for your interest in **KE-JAL TECHNOLOGIES** range of water treatment products. **KE-JAL TECHNOLOGIES** manufactures a broad spectrum of unique water purification, softening and filtration systems servicing the Industrial, commercial and laboratory markets.

At, **KE-JAL TECHNOLOGIES** we are a group of dedicated & result-oriented professional having rich experience in the field of Water treatment Industry, at various hierarchy in the different departments like Design & Engineering, Marketing & Project execution of Reverse Osmosis systems, De ionization systems, Filtration system of different capacities and up to turnkey projects for various reputed concerns. At this juncture we appreciate your keen interest towards our product range and very much pleased to submit our Techno-Commercial proposal as per the following Annexure:

1. Annexure I: Basis of design and Treatment Scheme
2. Annexure II: Technical Description
3. Annexure III: Scope of Supply
4. Annexure V: Prices and commercial Terms and conditions

## ANNEXURE – I

### BASIS OF DESIGN AND TREATMENT SCHEME

#### 1.1) Plant Introduction:

Considering your requirement of RO Water, we have suggested the proposed plant based on the State-of-the-art Reverse Osmosis Technology which shall produce the output water 500 LPH with less than 1 ppm TDS.

#### 1.2) Raw Water Analysis given by your side

SR. NO.	CHATERISTICS EXMINED	RESULT OF ANALYSIS
1	TDS	< 200 mg / ltr
2	Total Hardness	< 90 mg/ lit
3	Chloride	Present
4	Turbidity	Present
5	Sulphates	Present
6	Iron	present
7	Silica	present

#### 1.3) End Water Quality:

TDS	:	< 10 ppm
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The above quality shall be achieved subject to:

- 1] Feed quality is same as specified in your enquiry. In case of any change in the quality of raw water, the same may have implications on the Operating parameters and End-water quality of the system.
- 2] **Feed** limiting condition mentioned in our offer is strictly maintained.
- 3] Operation of Water treatment plant is strictly followed in totality as per our operating manual and instructions.
- 4] Pure chemicals, Original Spares and consumables, recommended by us, are used in W.T.P

<b>1.4</b>	<b>Operating conditions (RO plant)</b>		
	R.O. Productwater	:	500 + 250 LPH
	OperatingPressure	:	10 to15 Bar
	Feed Flow	:	1500 LPH
	Recovery	:	45 %

### **Treatment Scheme**

<b>Sr No.</b>	<b>Treatment Scheme</b>
1	Raw Water Transfer Pump
2	MULTI GRADE FILTER & ACTIVATED CARBON FILTER
3	Anti Scalene Chemical Dosing System
4	Micron Cartridge Filter
5	High Pressure Pump
6	RO Module
7	CIP Arrangement
8	Skid - Piping & Control Panel

## ANNEXURE – II

### TECHNICAL DESCRIPTION

#### UF SYSTEM

1.	<b>RAW WATER TRANSFER PUMP</b>		
	Quantity	:	One No.
	Type	:	Horizontal Multistage Centrifugal pump
	Material of Construction	:	SS
	Make	:	LUBI / CRI PUMPS
	Power consumption	:	1 HP
	Type of Drive	:	I Phase
	Capacity	:	1500 LPH
	Discharge Pressure	:	1.50 -3 kg/cm <sup>2</sup>
	Purpose	:	To pump raw water at required pressure so as to Enable transfer through the RO pre-treatment stage.

2.	<b>MULTI GRADE FILTER &amp; ACTIVATED CARBON FILTER</b>		
	Quantity	:	2 No.
	M.O.C. of Vessel	:	FRP
	Make of Vessel	:	Ke-jal
	Diameter of Vessel	:	13”
	Length of Vessel	:	54”
	Capacity	:	1500 LPH
	Frontal Pipe Work	:	FRP
	Operating Pressure	:	3.0 kg/cm <sup>2</sup>
	Make of valve	:	AUTO MPV
	Type of Valve	:	25 NB Multi port Valve
	Filtering Media	:	Silica Quartz Sand, Gravel, Pebbles & activated Carbon etc.
	Application	:	To filter out suspended solids up to 25micron size & To remove color, odor and some of organics Impurities.

<b>3. ANTI – SCALANT DOSING SYSTEM</b>			
	Quantity of Dosing pump	:	3 No.
	Type	:	Electronic Metering
	Operating Capacity	:	0- 5 LPH @ 5 Kg/Cm2
	MOC Of Pump	:	PP Head & Teflon Diaphragm
	Make of Pump	:	1 dose
	Quantity of Tank	:	3 No.
	MOC of Tank	:	HDPE
	Make of Tank	:	KE-JAL
	Capacity of tank	:	70 liters
	Application	:	To ensure non-adherence of scale causing salts on the membrane surface by adhering to the crystals of scale causing salts. Not much change in pH value.

<b>4. MICRON CARTRIDGE FILTER</b>			
	Quantity	:	2 Nos.
	Type of Cartridge	:	Replaceable spun type slim
	Material of Cartridge	:	Poly Propylene
	Make of Cartridge	:	PP
	M.O.C. of Housing	:	PLASTIC
	Make of Housing	:	KE-JAL TECHNOLOGIES
	Diameter of Cartridge	:	4.5 Inches * 5 element
	Length of Cartridge	:	20 Inches
	Capacity	:	1500 LPH
	Cartridge Rating	:	5micron
	Frequency of change	:	1 months(1 NOS )
	Application of Cartridge	:	To protect the membrane and the high-pressure pump from suspended particles.

<b>5.</b>	<b>HIGH PRESSURE PUMP</b>		
	Quantity	:	One No.
	Type	:	Vertical, Multi Stage, Centrifugal pump
	M.O.C. Of Pump	:	SS 304
	Make	:	<b>GRUNDFORCE Pumps</b>
	Power Consumption	:	1.5 hp
	Type of drive	:	1 phase, 50Hz, 240V
	Capacity	:	1500 LPH
	Discharge Pressure	:	10 to15 bar
	Application	:	To boost water energy so as to pass through the membrane module at high pressure for obtaining the Desired permeate quality.
<b>6.</b>	<b>RO MODULE</b>		
	Quantity	:	TWO Lot
	Item	:	RO Module consisting of Membrane Housing with ROmembranes Mounted on skid.
	Type of Membrane	:	Thin Film Composite Polyamide
	MOC of Membrane	:	Polyamide
	Make of Membrane	:	DuPont
	Size of Membrane	:	40" & 40 Length <b>UF MEMBRANE</b>
	No. of Membranes Required	:	2 Nos.
	MOC of Membrane Housing	:	FRP
	Make of Membrane Housing	:	KEJAL TECHNOLOGIES
	Size of Housing	:	2 element long
	No. of Housing Required	:	1 Nos. BY US
	Operating Pressure	:	10 to 15 kg/cm <sup>2</sup>
	Feed Flow	:	1500 LPH
	Product Flow Rate	:	500 LPH
	Recovery	:	45%
	Application of membrane	:	To reduce dissolved salts, present in water.
	Skid	:	SS 304

<b>7.</b>	<b>CIP ARRANGEMENT</b>		
	<b>CLEANING IN PLACE SYSTEM</b>	:	A CIP system is given to carry chemical cleaning of the membrane at specified intervals. Two types of chemicals are used: - Acid based and Alkaline based. Acid based chemical is used to remove inorganic deposits including iron, while the alkaline based chemical is used to remove organic fouling including biological matter. This cleaning carried out every 3 months helps in proper maintenance of the plant.

<b>8.</b>	<b>SKID - PIPING &amp; CONTROL PENAL</b>		
	Quantity	:	One Lot
	MOC of Skid	:	SS 304
	MOC of Piping	:	SS 304
	Size of Piping	:	20 NB
	Make	:	KEJAL TECHNOLOGIES

### INSTRUMENTATION AND PANEL

<b>INSTRUMENTS</b>			
<b>A</b>	<b>CONDUCTIVITY / TDS METER</b>		
	Quantity	:	
	Range	:	0-200ppm
	Make	:	KE-JAL TECHNOLOGIES
	Location	:	RO Product Outlet
<b>B</b>	<b>ROTAMETER</b>		
	Quantity	:	TWO Nos.
	Make	:	KEJAL TECHNOLOGIES
	Location	:	1) RO Product flow 2) RO Reject Flow
<b>C</b>	<b>PRESSURE GAUGE</b>		
	Quantity	:	4 Nos.
	Range	:	0-7 & 0- 21 kg/cm <sup>2</sup>
	Make	:	KEJAL TEHNOLOGIES

**FIRST R O PLANT 500 LPH**

<b>1.</b>	<b>RAW WATER TRANSFER PUMP</b>		
	Quantity	:	One No.
	Type	:	Horizontal Multistage Centrifugal pump
	Material of Construction	:	SS
	Make	:	LUBI / CRI PUMPS
	Power consumption	:	0.5 HP
	Type of Drive	:	I Phase
	Capacity	:	1500 LPH
	Discharge Pressure	:	1.50 -3 kg/cm <sup>2</sup>
	Purpose	:	To pump raw water at required pressure so as to
			Enable transfer through the RO pre-treatment stage.

<b>2.</b>	<b>MICRON CARTRIDGE FILTER</b>		
	Quantity	:	1 Nos.
	Type of Cartridge	:	Replaceable spun type slim
	Material of Cartridge	:	Poly Propylene
	Make of Cartridge	:	PP
	M.O.C. of Housing	:	Ss 304
	Make of Housing	:	KE-JAL TECHNOLOGIES
	Diameter of Cartridge	:	4.5 Inches * 5 element
	Length of Cartridge	:	20 Inches
	Capacity	:	1500 LPH
	Cartridge Rating	:	1 micron
	Frequency of change	:	1 months(1 NOS )
	Application of Cartridge	:	To protect the membrane and the high-pressure pump from suspended particles.



<b>3.</b>	<b>ANTI – SCALANT DOSING SYSTEM</b>		
	Quantity of Dosing pump	:	1 No.
	Type	:	Electronic Metering
	Operating Capacity	:	0- 5 LPH @ 5 Kg/Cm2
	MOC Of Pump	:	PP Head & Teflon Diaphragm
	Make of Pump	:	E dose / veritog
	Quantity of Tank	:	1 No.
	MOC of Tank	:	HDPE
	Make of Tank	:	KE-JAL
	Capacity of tank	:	70 liters
	Application	:	To ensure non-adherence of scale causing salts on the membrane surface by adhering to the crystals of scale causing salts. Not much change in pH value.

<b>4.</b>	<b>HIGH PRESSURE PUMP</b>		
	Quantity	:	One No.
	Type	:	Vertical, Multi Stage, Centrifugal pump
	M.O.C. Of Pump	:	SS 304
	Make	:	<b>GRUNDFORCE Pumps</b>
	Power Consumption	:	1.5 hp
	Type of drive	:	1 phase
	Capacity	:	1500 LPH
	Discharge Pressure	:	10 to15 bar
	Application	:	To boost water energy so as to pass through themembrane module at high pressure for obtaining the
			Desired permeate quality.

<b>5.</b>	<b>RO MODULE</b>		
	Quantity	:	TWO Lot
	Item	:	RO Module consisting of Membrane Housing with RO membranes Mounted on skid.
	Type of Membrane	:	Thin Film Composite Polyamide
	MOC of Membrane	:	Polyamide
	Make of Membrane	:	DuPont
	Size of Membrane	:	40" & 40 Length MEMBRANE
	No. of Membranes Required	:	2 Nos.
	MOC of Membrane Housing	:	SS 304
	Make of Membrane Housing	:	KEJAL TECHNOLOGIES
	Size of Housing	:	2 element long
	No. of Housing Required	:	1 Nos. BY US
	Operating Pressure	:	10 to 15 kg/cm <sup>2</sup>
	Feed Flow	:	1500 LPH
	Product Flow Rate	:	500 LPH
	Recovery	:	45%
	Application of membrane	:	To reduce dissolved salts, present in water.
	Skid	:	SS 304
<b>6.</b>	<b>CIP ARRANGEMENT</b>		
	<b>CLEANING IN PLACE SYSTEM</b>	:	A CIP system is given to carry chemical cleaning of the membrane at specified intervals. Two types of chemicals are used: - Acid based and Alkaline based. Acid based chemical is used to remove inorganic deposits including iron, while the alkaline based chemical is used to remove organic fouling including biological matter. This cleaning carried out every 3 months helps in proper maintenance of the plant.

<b>8.</b>	<b>SKID - PIPING &amp; CONTROL PENAL</b>		
	Quantity	:	One Lot
	MOC of Skid	:	SS 304
	MOC of Piping	:	SS 304
	Size of Piping	:	20 NB
	Make	:	KEJAL TECHNOLOGIES

## **SECOND R O PLANT 250 LPH**

### **ANNEXURE – I**

#### **BASIS OF DESIGN AND TREATMENT SCHEME**

##### **1.4) Plant Introduction:**

Considering your requirement of RO Water, we have suggested the proposed plant based on the State-of-the-art Reverse Osmosis Technology which shall produce the output water 250 LPH with less than 1ppm TDS.

##### **1.5) Raw Water Analysis given by your side**

<b>SR. NO.</b>	<b>CHATERISTICS EXMINED</b>	<b>RESULT OF ANALYSIS</b>
1	TDS	< 20 ppm
2	Total Hardness	< 0 ppm
3	Chloride	present
4	Turbidity	present
5	Sulphates	present
6	Iron	present
7	Silica	present

##### **1.6) INPUT Water Quality:**

	TDS	:	< 20 ppm
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The above quality shall be achieved subject to:

- 5]** Feed quality is same as specified in your enquiry. In case of any change in the quality of raw water, the same may have implications on the Operating parameters and End-water quality of the system.
- 6]** **Feed** limiting condition mentioned in our offer is strictly maintained.
- 7]** Operation of Water treatment plant is strictly followed in totality as per our operating manual and instructions.
- 8]** Pure chemicals, Original Spares and consumables, recommended by us, are used in W.T.P

## 1.1) Treatment Scheme

Sr No.	Treatment Scheme
1	Raw Water Transfer Pump
2	Micron Cartridge Filter
3	High Pressure Pump
4	RO Module
5	CIP Arrangement
6	Skid - Piping & Control Panel

### ANNEXURE II

1.	RAW WATER TRANSFER PUMP		
	Quantity	:	One No.
	Type	:	Horizontal Multistage Centrifugal pump
	Material of Construction	:	SS
	Make	:	LUBI / CRI PUMPS
	Power consumption	:	0.5 HP SS
	Type of Drive	:	I Phase
	Capacity	:	1000 LPH
	Discharge Pressure	:	1.50 -3 kg/cm <sup>2</sup>
	Purpose	:	To pump raw water at required pressure so as to enable transfer through the RO pre-treatment stage.

2.	MICRON CARTRIDGE FILTER		
	Quantity	:	1 Nos.
	Type of Cartridge	:	Replaceable spun type slim
	Material of Cartridge	:	Poly Propylene
	Make of Cartridge	:	PP
	M.O.C. of Housing	:	SS 316 L
	Make of Housing	:	KE-JAL TECHNOLOGIES
	Diameter of Cartridge	:	4.5 Inches
	Length of Cartridge	:	10 Inches
	Capacity	:	1000 LPH
	Cartridge Rating	:	0.5micron
	Frequency of change	:	1 months (1 NOS )
	Application of Cartridge	:	To protect the membrane and the high-pressure pump from suspended particles.

<b>3.</b>	<b>HIGH PRESSURE PUMP</b>		
	Quantity	:	One No.
	Type	:	Vertical, Multi Stage, Centrifugal pump
	M.O.C. Of Pump	:	SS 304
	Make	:	<b>GRUNDFORCE Pumps</b>
	Power Consumption	:	2/9
	Type of drive	:	I phase, 50Hz, 240V
	Capacity	:	1000 LPH
	Discharge Pressure	:	10 to15 bar
	Application	:	To boost water energy so as to pass through the membrane module at high pressure for obtaining the desired permeate quality.

<b>4.</b>	<b>RO MODULE</b>		
	Quantity	:	ONE Lot
	Item	:	RO Module consisting of Membrane Housing with ROmembranes Mounted on skid.
	Type of Membrane	:	Thin Film Composite Polyamide
	MOC of Membrane	:	Polyamide
	Make of Membrane	:	<b>Dupont</b>
	Size of Membrane	:	40" & 40 Length
	No. of Membranes Required	:	1 Nos.
	MOC of Membrane Housing	:	SS 316 L
	Make of Membrane Housing	:	KEJAL TECHNOLOGIES
	Size of Housing	:	1 element long
	No. of Housing Required	:	1 Nos. BY US
	Operating Pressure	:	10 to 15 kg/cm <sup>2</sup> Feed Flow
	Product Flow Rate	:	250 LPH
	Recovery	:	50%
	Application of membrane	:	To reduce dissolved salts, present in water.

<b>5</b>	<b>CIP ARRANGEMENT</b>		
	<b>CLEANING IN PLACE SYSTEM</b>	:	A CIP system is given to carry chemical cleaning of the membrane at specified intervals. Two types of chemicals are used: - Acid based and Alkaline based. Acid based chemical is used to remove inorganic deposits including iron, while the alkaline based chemical is used to remove organic fouling including biological matter. This cleaning carried out every 3 months helps in proper maintenance of the plant.

<b>6</b>	<b>SKID - PIPING &amp; CONTROL PENAL</b>		
	Quantity	:	One Lot
	MOC of Skid	:	SS 304
	MOC of Piping	:	SS 316 L
	Size of Piping	:	½ inch
	Make	:	KEJAL TECHNOLOGIES

### INSTRUMENTATION AND PANEL

INSTRUMENTS			
<b>A</b>	<b>CONDUCTIVITY METER</b>		
	Quantity	:	One No.
	Range	:	0-200ppm
	Make	:	KE-JAL TECHNOLOGIES
	Location	:	RO Product Outlet
<b>B</b>	<b>ROTAMETER</b>		
	Quantity	:	TWO Nos.
	Make	:	KEJAL TECHNOLOGIES
	Location	:	1) RO Product flow 2) RO Reject Flow
<b>C</b>	<b>PRESSURE GAUGE</b>		
		:	2 Nos.
	Range	:	0-7 & 0- 21 kg/cm <sup>2</sup>
	Make	:	KEJAL TEHNOLOGIES

### ANNEXURE - V PRICE, COMMERCIAL TERMS AND



**CONDITIONS**

<p><b>1</b></p>	<p><b>PRICE:</b></p> <p>Our price for Design, Engineering and Supply of proposed water treatment plant, as described in our earlier Annexure shall be:</p> <p><b>REVERSE OSMOSIS PLANT CAPACITY: UF &amp; 500 &amp; 250 LPH WITH EDI Followed by</b></p> <table border="0"> <tr><td>1. UF 1000 LPH</td><td>1 NOS</td></tr> <tr><td>2. 500 LPH R O PLANT SS</td><td>1 SET</td></tr> <tr><td>3. 250 LPH R O PLANT SS</td><td>1 SET</td></tr> <tr><td>4. EDI (ELECTRONICS DIONNISED WATER) ION PURE</td><td>1 SET</td></tr> <tr><td>5. UV 200 FLOW (ALFA)</td><td>2 NOS</td></tr> <tr><td>6. TDS METER</td><td>2 NOS</td></tr> <tr><td>7. CONDUCTVITY METER</td><td>3 NOS</td></tr> <tr><td>8. CERCULETION SYSTEMS SS 316 L ½ INCH</td><td>1 SET</td></tr> <tr><td>9. P H METER</td><td>1 NOS</td></tr> <tr><td>10. PIPING ½ INCH 120 METER VALVE &amp; FITTING</td><td>1 SET</td></tr> <tr><td>11. PLC (SIMENS )</td><td>1 NOS</td></tr> <tr><td>12. TANK 1000 L SS 304</td><td>2 NOS</td></tr> <tr><td>13. TANK (JEAKETING ) 500 L SS 316 L air</td><td>1 NOS</td></tr> <tr><td>14. PUMP (GRUNDFORCE) SS</td><td>2 NOS</td></tr> <tr><td>15. CONTROL PANEL WITH HEATER</td><td>2 NOS</td></tr> <tr><td>16. SENSOR</td><td>1 NOS</td></tr> <tr><td>17. DIGITAL TEMPREURE METER</td><td>1 NOS</td></tr> <tr><td>18. PIPING ½ INCH INTERNAL</td><td>1 SET</td></tr> <tr><td>19. AUTO FLAUSHING VALVE</td><td>1 NOS</td></tr> <tr><td>20. RETURN PIPE SPRINKLER</td><td>3 nos</td></tr> </table> <p><b>TOTAL : 18,50,900.00</b></p> <p><b>GST 18 % EXTRA</b></p> <p><b>TRANSPOTATION CHARGE : 20,000.00</b></p>	1. UF 1000 LPH	1 NOS	2. 500 LPH R O PLANT SS	1 SET	3. 250 LPH R O PLANT SS	1 SET	4. EDI (ELECTRONICS DIONNISED WATER) ION PURE	1 SET	5. UV 200 FLOW (ALFA)	2 NOS	6. TDS METER	2 NOS	7. CONDUCTVITY METER	3 NOS	8. CERCULETION SYSTEMS SS 316 L ½ INCH	1 SET	9. P H METER	1 NOS	10. PIPING ½ INCH 120 METER VALVE & FITTING	1 SET	11. PLC (SIMENS )	1 NOS	12. TANK 1000 L SS 304	2 NOS	13. TANK (JEAKETING ) 500 L SS 316 L air	1 NOS	14. PUMP (GRUNDFORCE) SS	2 NOS	15. CONTROL PANEL WITH HEATER	2 NOS	16. SENSOR	1 NOS	17. DIGITAL TEMPREURE METER	1 NOS	18. PIPING ½ INCH INTERNAL	1 SET	19. AUTO FLAUSHING VALVE	1 NOS	20. RETURN PIPE SPRINKLER	3 nos
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<p><b>2</b></p>	<p><b>GST: 18% Extra</b></p>																																								
<p><b>3</b></p>	<p><b>DELIVERY:</b></p> <p>The Plant can be designed, assembled and made ready for dispatch in 4 weeks. However,an additional week is required for carrying out the Testing procedures.</p>																																								
<p><b>4</b></p>	<p><b>PAYMENT TERMS:</b></p> <p>30 % Advance along with formal purchase order.</p> <p>60% Against dispatch</p> <p>10% agaist work done</p>																																								

<b>5</b>	<p><b>GUARANTEE / WARANTEE</b></p> <p>The Water treatment system supplied is guaranteed for a period of <b>12 months</b> from the date of commissioning OR 18 Months from the date of last major supply, whichever is earlier.</p> <p>Equipment guarantee is valid against defective workmanship and / or poor performance of the system only. Our liability is limited to repair or replace the same and not subject to any wear/tear or supply of consumables/spares.</p> <p>Above guarantee is subjected to:</p> <ol style="list-style-type: none"> <li>1] Using spare parts / consumables recommended by us.</li> <li>2] Operation and Maintenance of the plant as per our Operation manual.</li> <li>3] Data Log sheet needs to be strictly maintained as per our instructions.4]</li> </ol> <p>Free service every 3 months for a period of one year</p>
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**OUTLET OF EDI UNIT: PURIFIED WATER AS PER USP STANDRAD**

Online PH	6 TO 7
Conductivity	<0.6 us/cm
TDS	< 0.4 ppm
TOC	< 400 ppb

Total bacteria count : < 100 cfu/ml

Parameter	USP Grade	Expected value	Action level
CONDUCTIVITY ( 25 C)	<1.25 mq	<0.5 mq	10.mq
TOC	<500 ppb	<200 ppb	300 ppb
BACTERIA COUNT	< 100 CFU/ML	< 50 CFU/ML	80 CFU/ML

THANKS & REGRADS



*P. J. PATEL*