

Bio-energy Newsletter

The India Special Edition. 

**Continued customer centricity amidst
the Covid-19 lockdown**

August 2020, Vol : VII

Dear customers,

The Covid 19 pandemic may have disrupted how we live, work and do business, but it has not affected our resolve to bounce back and adapt to the new normal. At Praj, we believe we have done a commendable job of being resilient, while staying focused and creating value for our customers.

We have been happy to see our customers gradually pick up the pace, focus on cost optimization and improve efficiencies while ensuring that health and safety continue to be of paramount importance.

On our part at Praj, we have successfully acclimatized to the new normal of doing business. Despite the lockdown and restrictions on travel, we have met customer expectations through detailed planning, project execution and commissioning. Our engineers travelled thousands of kms despite the nationwide lockdown to help customers to commission ethanol plants for the production of sanitizer.

Manufacturing at Sanaswadi and Kandla have recommenced, along with Praj Matrix and Praj Towers which have resumed operations in keeping with government guidelines. We have adopted Work from home, resumed functions like engineering, procurement, projects etc. and streamlined the supply chain. Praj is employing and investing in advanced software, on-site resources, and new machinery to boost productivity. We have reopened and resumed construction at 18 sites across the country in strict compliance with state guidelines for Covid -19.

Praj has undertaken various initiatives as part of its social commitment to fight the pandemic. We not only contributed to government funds but provided free and open access to our proprietary hand wash sanitizer (HWS) manufacturing technology. To cater to the worldwide demand for pharma grade alcohol and help customers maximize value of assets, we are helping



manufacturers of fuel grade ethanol to convert to pharma grade. Praj is in pole position to offer Eco Smart technology solution to green-field as well as brownfield ethanol plants.

We commend our teams at sites and in office for their diligence and commitment in assisting our customers, despite the lockdown. We are also grateful to their families without whose support it would have been stressful.

We salute our enterprising customers who have resumed production despite the challenges posed by the pandemic. Even as we continue to battle new challenges arising from this volatile situation, we refuse to cower down. Thank you for your continuing support and we look forward to braving this phase together.

With best wishes for your health, safety and well being,

Atul Mulay

President, Bioenergy Business

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Commitment amidst a national lockdown: commission a plant at Panila Chem Ltd. Gujarat

Despite the nation-wide lock-down on account of Covid 19, Praj displayed exemplary courage, dedication and presence of mind in promptly commissioning an alcohol purification plant.



Mr. Pankaj Bhayani, Director complimented Praj saying, "Praj is a professionally managed company offering appropriate technologies to fulfill market demand. We are completely satisfied happy with performance of our pharma and perfumery grade ethanol treatment plant supplied by Praj. We appreciate Praj for their innovative technology, knowledge and dedication. Praj commissioning services during nationwide lock down period of COVID-19 were of great importance for us."

Successful commissioning of distillery unit at Gobind Sugar Mills Ltd. Uttar Pradesh

At Gobind Sugars Mills Ltd. (GSML) in Aira, Uttar Pradesh.

Successfully conducted an E-Performance Guarantee Run (PGR) for a 100 KLPD molasses based ethanol Distillery Complex.

In a show of unique competence, Praj engineers managed this PGR amidst the lockdown by taking plant control online through video and audio networking. Guaranteed 80 parameters were achieved and demonstrated by Praj on B-Heavy as well as C molasses separately. GSML and their consultant, Avant Garde, together with Praj witnessed the PGR before signing off on the report.



Mr. Alok Saxena, Executive Director commended the team saying, "Praj completed our 100 KLPD green field Molasses based Distillery Project at Aira, Lakhimpur Kheeri UP. We are successfully producing fuel ethanol to supply to OMCs. After successful completion of erection. Praj conducted performance guarantee run and demonstrated performance parameters. During COVID-19 lockdown, they achieved optimum parameters within the threshold. We appreciate Praj's project, construction and commissioning teams for their dedicated approach and cooperative nature. We wish Praj great success in the future."

Commissioning distillery unit at Balarampur Chini Mill, UP

Praj successfully installed and commissioned a 160 KLPD green field molasses based distillery unit at Balarampur Chini Mill Unit Guleria, UP for the production of fuel grade ethanol. Distillery sections comprises of molasses handling, fermentation, distillation, ethanol dehydration (MSDH), raw spent wash evaporation were designed, engineered, supplied, installed and commissioned by Praj in record time.



Mr. Vinay Khanna, Sr. General Manager - Business Planning said, "The project execution was done by Praj in the most professional way and the project was completed in record time. Praj's design, engineering, equipment quality and performance is well above our expectations. We recognize Praj as one of our strategic partners in our efforts to install efficient, sustainable and advanced bio fuel units."



Commissioning of distillery unit at Majhaulia Sugar Industries Pvt Ltd.

Praj successfully completed 60 KLPD Molasses based Distillery Project at Majhaulia Sugar Industries Pvt Ltd. West Champaran, Bihar. It was turnkey supply of PRAJ including "Project Management Services". PRAJ scope of supply includes molasses Bulk storage & handling, Fermentation, Distillation, Ethanol Dehydration (MSDH), Raw Spent wash Evaporation up to 60%, Process condensate treatment plant -PCTP, Spirit receiver and Bulk storage, Chemical storage, Water treatment plant -WTP, Utilities like steam power generation and distribution. Project management for Incineration Boiler, Power house, Civil and structure design, engineering supervision.



Mr. Rajesh Sarda, Director, complimented Praj saying, "This is first distillery project in our group of Jayshree Tea & Industries Limited. We are impressed with their project management services, engineering standards, equipment fabrication quality, overall project execution capability and Plant performance. We sincerely appreciate Praj's dedicated execution and commissioning team who supported us throughout COVID-19 lock down period and stabilized our production on rated capacity by achieving desired Performance. Many times Praj team went out of the way and supported us for trouble shooting, debottlenecking. We are looking for mutually rewarding opportunities to work with Praj."

Successful execution of distillery plant for RBSSK, Maharashtra

Rajaram Bapu SSK Ltd - Sangli, Maharashtra has appreciated ENA quality produced from Praj plant as a Premium grade ENA supplied to leading bottlers like Diageo & ABD.

Recently RBSSK announced successful closure of 60 KLPD distillery project with Praj for production of ENA. The project in itself was testimony that hard work, sound experience and customer centric approach that helped overcome the toughest of challenge put in by heavy rains and floods which crossed over 35 days loss of time.



Mr. SD Korde, General Manager (Commercial & Projects) complimented Praj saying, "We would like to sincerely appreciate Praj for their Customer centric approach, excellent team work, planning and execution capabilities displayed during completing our Distillery project in record time.". We are more than happy to see Praj team at our plant in mid of nationwide lock down for COVID-19 pandemic and successfully commissioned our plant following all social distancing & safety norms. We are satisfied with overall plant performance & workmanship. We are proud to have business association with Praj for over two decades for our spirit division.

Commissioning of evaporation plant at Mawana Sugars Ltd., Uttar Pradesh

Praj successfully installed and commissioned a Raw Spent wash Evaporation plant for Mawana Sugars Ltd., Nangalamal Unit Meerut, UP. The mechanical, electrical and instrumentation along with necessary structural work has been successfully completed at our 120 KLPD Distillery unit. .



Mr. Sandeep Misra, Assistant vice president (Distillery), said, "Praj has successfully commissioned Raw spent wash evaporation project at our Mawana Sugar distillery unit. Project execution, Commissioning and Performance demonstration Run was completed in a seamless and time bound manner. In first attempt MEE Plant achieved 58-60% concentration of Raw spent wash at rated capacity and we could successfully used a fuel in Incineration boiler. We appreciate PRAJ Commissioning support during mid of Nationwide COVID - 19 lock down period and successful handing over the plant to us. Class room training session for Mawana production team was conducted by Praj experts thru Visual Networking Platform. "We are looking forward for many more business opportunities with PRAJ as a strategic partner "

Successful commissioning of distillery at Krantiagrani Dr.G D Bapu Lad SSK Ltd. Kundal Sangali, Maharashtra

Krantiagrani SSK have recorded special appreciation for Praj technology and successful commissioning of its first 60 KLPD distillery complex at Kundal Sangali, Maharashtra. The distillery has multi-product facilities like extra neutral alcohol (ENA), potable grade rectified spirit and fuel grade ethanol. Plant performance trials were jointly completed and performance met agreed norms. The Kranti SSK highlighted Praj's workmanship, fabrication quality, project execution capabilities and commissioning support.



Mr. DS Gavhane, Managing Director said "Praj has been a most trusted and reliable partner in building our modern distillery unit at Kundal. The project was completed very professionally and within the agreed period. It is a true project & engineering company having a team of professionals. We would be happy to work with Praj on mutually rewarding opportunities in the future."



Mr Anil Shinde, Distillery Manager "Plant performance is excellent & consistent. We are regularly operating Distillery unit at higher capacity for all three products RS, ENA and AA. Fermentation house recovery is at par, RSW evaporation, MSDH unit is working satisfactorily with desired capacity. We have taken over the plant after successful performance run. We thank to 'Praj Sales team, Project team, Construction team and commission team' for their cooperation and support throughout the project execution and commissioning."



Orders Booked during Lockdown

We thank our customers who have resumed production despite the challenges posed by the pandemic. Adapting to the new normal, they have even finalized orders digitally while restarting business. We appreciate our customers who have proved that the ability to handle challenges is a measure of strength of character, vision and progress. We thank them for continuing to repose trust in Praj to support their growth plans.

No.	Customer	Project	Location
1	Premier Alcobev Ltd.	Setting up expansion for existing grain distillery plant.	Sanasarpur Terrace , Himachal Pradesh
2	Siddapur distilleries Pvt. Ltd.	Setting up new distillation plant.	Jhamkhandi, Karnataka
3	Bilagi sugars Ltd.	Setting up greenfield distillery based on C molasses, B molasses and sugar syrup.	Bagalkot taluka, Karnataka
4	Bajaj Hindustan Sugars Ltd.	Setting up new absolute alcohol plants.	Plila, UP
5	Jaywant Sugar Ltd.	Setting up new sanitizer plant.	Karad, Maharashtra
6	Loknete Sundarraoji Solanki SSK. Ltd.	Setting up new absolute alcohol plant.	Beed, Maharashtra
7	Shiur Sakhar Karkhana Ltd.	Setting up greenfield turnket distillery.	Hingoli, Maharashtra
8	Gangamai Industries & Construction Ltd.	Raw Spent wash Evaporation.	Shevgaon, Maharashtra
9	Shri Dutta India Pvt. Ltd.	Setting up greenfield based on C molasses, B molasses and sugar syrup.	Phaltan, Maharashtra
10	Shreenath Mhaskoba Sakhar Karkhana Ltd.	Setting up turnkey distillery.	Rahu, Maharashtra
11	IG Petrochemicals Ltd.	Pharma Grade Ethanol.	Khalapur, Maharashtra



Saluting the Covid Warriors of Commissioning

I am delighted to note that Praj's focus on customer centricity has continued despite the challenges posed by the Covid 19 pandemic.

I applaud our customers, their engineers, supervisors and commissioning staff who quickly adapted to the new normal and are proceeding with production. In successfully taking charge of plants, they have boosted Praj's confidence in facilitating hand-overs.

We also salute Praj's own commissioning and construction engineers who continued serving customers despite the Covid -19 nationwide lock-down. From Lockdown 01 to 04, they travelled thousands of kilometres across the country, maintaining personal safety, carrying special permissions arranged by clients and under strict adherence to Government guidelines.

My appreciation would not be complete without acknowledging the warriors in the background - supportive families - because of whose backing, our teams could complete project and commissioning on time.

We thank all for their courage and determination, demonstrating that it's only by meeting challenges we can find the best in ourselves.

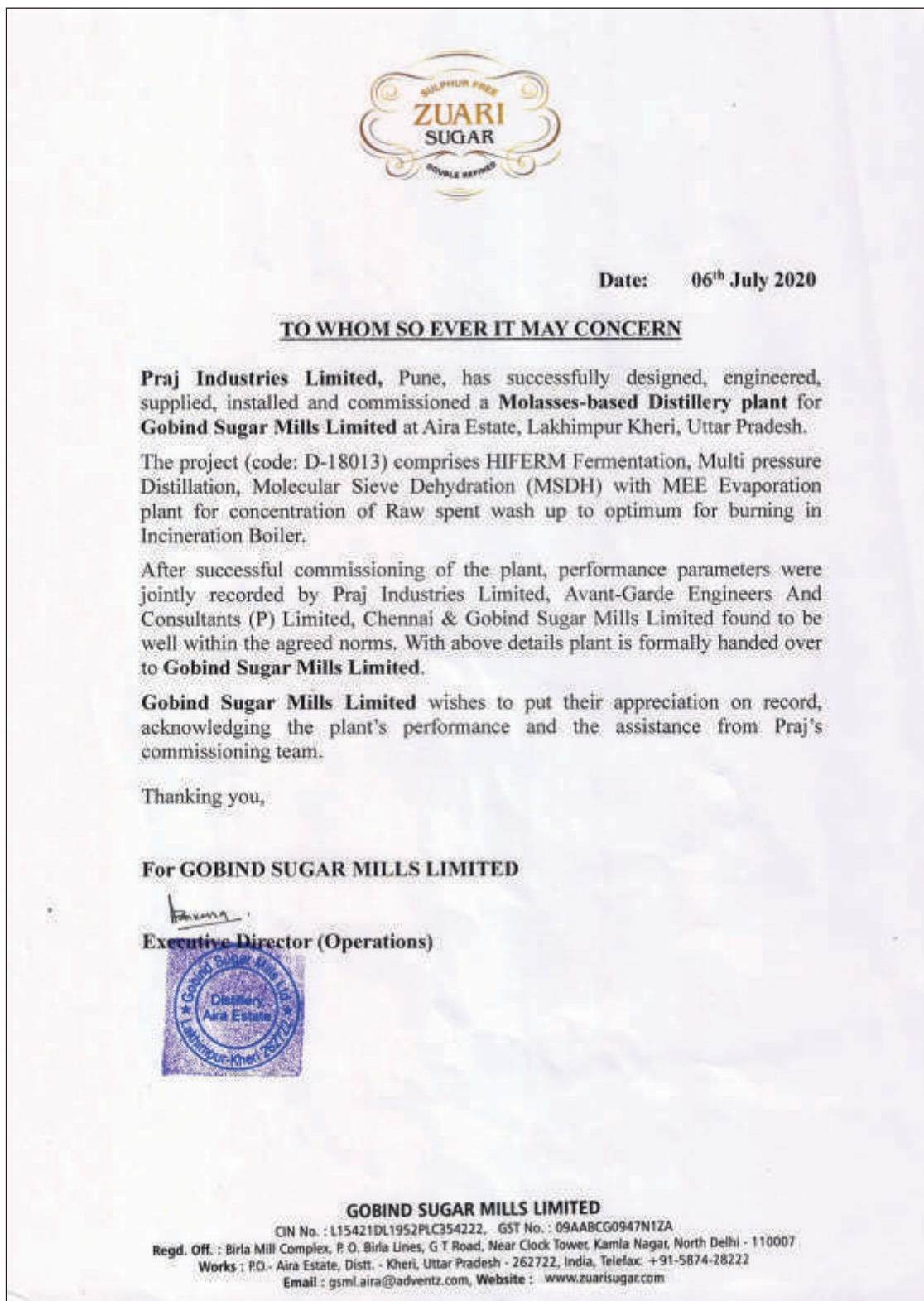
All the best, and keep up the good work.

Prasanna Deshpande

AVP Engineering & Commissioning

Certificates commending Praj's commissioning excellence

Praj's engineers have not only commissioned plants but delighted customers with their efficiency, co-ordination and by going beyond the call of duty. The following certificates from customers are testimony to the company's professionalism and thoroughness in facilitating handing over of plants.



Certificate



ANNEXURE: PERFORMANCE PARAMETERS


Parameters achieved during performance guarantee run dated 03 March 2020 to 05 March 2020.

The achieved performance parameters at M/s. Balrampur Chini Mills, (Unit) Gularia (D-18025) are as follows:

Description	Unit	Agreed Parameters	Achieved Parameters
Total Spirit Production capacity	KLPD	165	162.29
Absolute alcohol Production	KLPD	122.84	124
Fermented wash Alcohol concentration	% V/V	17.000%	17.1
Fermentation Efficiency	% V/V	90	90.6
Distillation Efficiency	%	98.5	98.25
MSDH Efficiency	%	99.3	99.8
Alcohol yield per ton of molasses as total spirit	Liter	297 @ 50.3 Total Fermentable sugar (TFS)	336.5 @ 55.29 Total Fermentable sugar (TFS)
Spirit Wash quantity fired in evaporation section	TPH	40.91	48.5
Concentrated spirit wash concentration	% w/w	60	58-60
Utilities Consumption (Wash to AA mode)			
Steam @ 3.5 Bar(g) for Distillation including Evaporation section	TPH	28.5	38.5
Steam @ 3.5 Bar(g) for Distillation including Evaporation section	Kg/Sr	4.23	4.0
Steam @ 1.2 Bar(g) for MSDH	TPH	3.44	4.8
Steam @ 1.2 Bar(g) for MSDH	Kg/Lr	0.55	0.54
Electrical power consumption (3 phase, 415 V, 50 Hz)			
Wash to AA mode including Evaporation section (From fresh batch inclusion transfer pump to wash and up to final pump)	KWH/MT of TS	280	198

Vinay K. Sharma
For Balrampur Chini Mills Ltd (Unit - Gularia)

Certificate



Majhulia Sugar Industries Pvt. Ltd.
(Subsidiary : Jay Shree Tea & Industries Ltd.)

08/79/20

Date: 15/05/2020

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Praj Industries Limited**, Pune has successfully designed, engineered, supplied, installed and commissioned **Molasses based Distillery plant of capacity 55 KLPD Molasses to Ethanol**, It is comprising of **"HIFERM Fermentation, Multi Pressure Distillation, Mol Sieve Dehydration (MSDH) with stand alone Evaporation & Process Condensate treatment Plant (PCTP)"** for. (Project Code: D-18001).

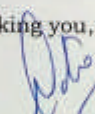
After successful commissioning of the plant, Performance parameters were jointly recorded by **Praj Industries Limited (PIL) & Majhulia Sugar Industries Pvt Ltd. (MSIPL)** and found to be well within the agreed limits. With above details plant is formally handed over to Majhulia Sugar Industries Pvt. Ltd. And same is accepted by Majhulia Sugar Industries Pvt. Ltd. West Champaran, Bihar.


Majhulia Sugar Industries Pvt Ltd want to put their appreciation on record acknowledging the plant's performance and the assistance from Praj,s commissioning team.


Deliverance is accomplished soundly as strategically planned and meet all qualitative parameters. We equally appreciate Praj's Equipment manufacturing quality, Workmanship, Project management, Construction quality, Effective coordination and Prompt technical support provided by strong & dedicated **"Engineering & Commissioning team"** of Praj Industries Limited, Pune.

We are very gratified and would like to enlighten you that it would be **M/s Majhulia Sugar Industries Pvt Ltd** Gratification, in joining hands with **Praj Industries Limited** for impending Business Opportunities and Solidifying association.

Thanking you,


Indeeep S Bhatia (CGM)
Majhulia Sugar Industries Pvt Ltd





Registered Office: P-2, Transport Depot Road, Kolkata - 700086
 Mill: Majhulia, Dist. West Champaran, Bihar - 845454. Phone Nos: +91-6254 282921, +91-6254 282173. Fax: +91-6254 282242
 Email: mill@jayshreesugar.com. CIN: U15122WB2015PTC207281

Certificate



NANGLAMAL SUGAR COMPLEX

(DISTILLERY DIVISION)

Nanglamal, District Meerut-250 001 (U.P.)

T 0121-2882062, 2882063 F 0121- 2882671

Date: 03/07/2020

TO WHOM SO EVER IT MAY CONCERN

This is to certified that, Praj Industries Limited, Pune - India has successfully Installed & Commissioned "Raw Spent wash Evaporation" plant for concentration from 40 to 60% w/w (Project Code: V-18006) for 120 KLPD Wash to Ethanol Molasses based Distillery unit located at Mawana Sugars limited, Unit: Nanglamal Sugar Complex, Distillery Division, Village-Nanglamal, P.O. Maukhas, Garh Road, Meerut, Uttar Pradesh.

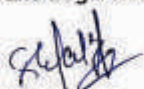
We confirm that the plant referred herein is Mechanically, Electrically and instrumentally completed along with all necessary structural work and installation of mandatory safety measures.

PRAJ has employed necessary know-how & facilities to design, engineering, manufacturing, supply and Construct this plant with necessary utilities. The workmanship is observed to be as per std. guidelines and quality of work found satisfactory. Performance Parameters found to be well within the agreed norms.

With above details plant is formally taken over by Mawana Sugars Limited (Unit: Nanglamal Sugar Complex, Distillery Division), Meerut, Uttar Pradesh for commercial operations.

We appreciate Praj's support and look forward to more mutually rewarding opportunities to work with them.

Thanking You,
For Mawana Sugars Limited


Mr. Sunil Malhotra
Manager- Engineering


Mr. Lakhvindra Gaur
General Manager


Mr. Anil Kumar Singh
Manager- Production

MAWANA SUGARS LIMITED

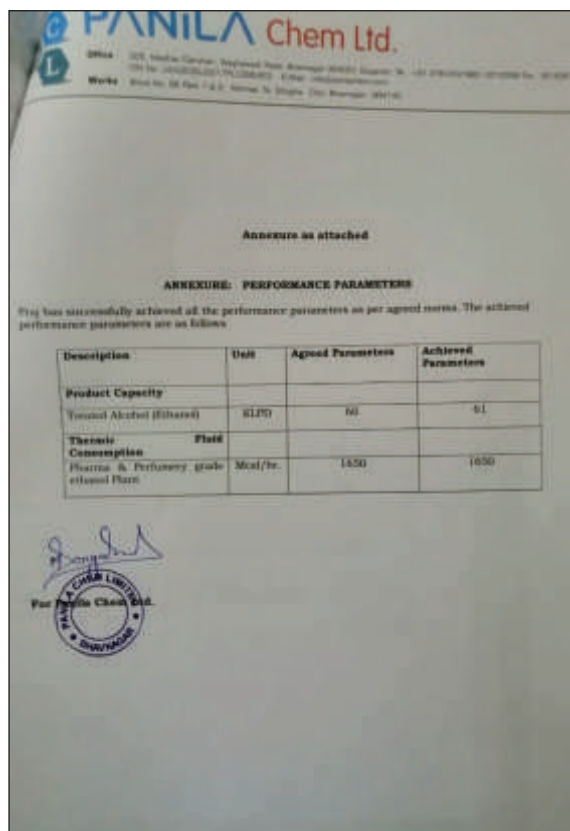
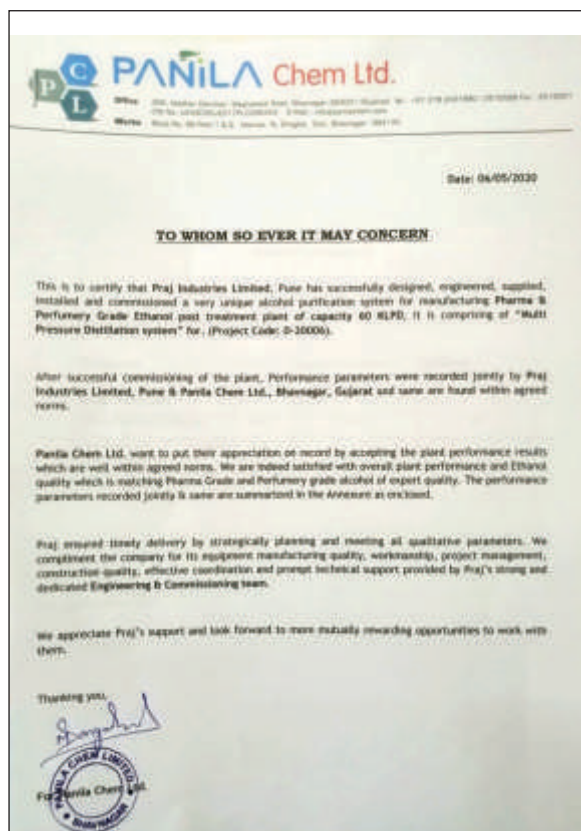
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Certificate



Certificate

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SAKHAR KARKHANA LTD.
RAJARAMNAGAR**

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**राजारामबापू पाटील सहकारी साखर
कारखाना लि. राजारामनगर**

पोस्ट: साकार, पिन- ४७५ ४३६
जिल्हा: सांगली (महाराष्ट्र राज्य) भारत

फोन: (०२३४२) २२५८५१ ते ५५, ९८७९८०३१३१ ते १३३ • फॅक्स: (०२३४२) २२५८५५ • वेब: www.rajarambapugroup.com • ईमेल: rajarambapugroup@gmail.com

Date: 07/04/2020

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Praj Industries Limited**, Pune has successfully designed, engineered, supplied, installed and commissioned the **"ECO FINE Multi Pressure Distillation"** for Modernisation of 60 KLPD Wash to Total Spirit, Molasses based Distillery plant (Project Code: D-18029).

After successful commissioning, Performance Guarantee parameters were recorded jointly by **Praj Industries Limited (PIL)**, Pune and **Rajaram Bapu Sahakari Sakhar Karkhana Ltd (RBPSSK)**, Rajaram Nagar, Tal. Walwa, District Sangli, Maharashtra.

Rajaram Bapu Sahakari Sakhar Karkhana Ltd want to put their appreciation on record, by accepting plant performance results which are well within agreed norms.

The performance parameters recorded jointly & same are summarized in the Annexure as enclosed.

We appreciate Praj's Equipment manufacturing quality, Workmanship, Project management, Construction quality, Effective coordination and Prompt technical support provided by strong & dedicated **"Engineering & Commissioning team"** of Praj Industries Limited, Pune. We are especially impressed and would like to thank Praj team for timely Project execution, Commissioning, Operational training and overall professional approach taken.

Praj Industries Limited, Pune has handed over the plant for commercial production and same has been taken over by **Rajaram Bapu Sahakari Sakhar Karkhana (RBPSSK)**, **Rajaram Nagar**, Tal. Walwa, District Sangli, Maharashtra. We look forward for continued association with **PRAJ** for support in all our future projects.

Thanking you,

For **Rajaram Bapu Sahakari Sakhar Karkhana Ltd**:



Distillery Manager



Co-gen. Incharge
& General Manager (C & P)



MANAGING DIRECTOR

**RAJARAMBAPU PATIL SAHAKARI
SAKHAR KARKHANA LTD.
RAJARAMNAGAR**

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कारखाना लि. राजारामनगर**

पोस्ट: साकार, पिन- ४७५ ४३६
जिल्हा: सांगली (महाराष्ट्र राज्य) भारत

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Date: 07/04/2020

ANNEXURE - PERFORMANCE PARAMETERS

Praj has successfully achieved all the performance parameters as per agreed norms. The achieved performance parameters are as follows:

Parameters	Agreed Performance Parameters	Achieved Performance Parameters
Product Capacity		
Extra Neutral Alcohol (ENA)	56,100 LPD of Extra Neutral Alcohol with minimum strength of 96.0% v/v OR 60,000 LPD of Total Spirit	56,100 LPD of Extra Neutral Alcohol with minimum strength of 96.0% v/v OR 62,000 LPD of Total Spirit
Steam Consumption		
Total steam for MPW: Distillation (Wash to EPN)	8.0 TPH at 3.5 Kg/cm ² (g) 13.2kg/hr of TG	8.0 TPH at 3.5 Kg/cm ² (g) 13.2kg/hr of TG

For **Rajaram Bapu Sahakari Sakhar Karkhana Ltd**,



Distillery Manager



Co-gen. Incharge & General Manager
(Commercial & Projects)
R. B. P. S. S. K. Ltd. Rajaramnagar



Managing Director

