

MIRA INFORM REPORT

Report No. :	546850
Report Date :	28.12.2018

IDENTIFICATION DETAILS

Name :	INSTITUTE FOR PLASMA RESEARCH
Registered Office :	Bhat Village, Near Indira Bridge, Gandhinagar – 382428, Gujarat
Mobile No.:	91-79-23962000
Country :	India
Financials (as on) :	31.03.2018 (Consolidated)
Year of Establishment :	1986
Corpus Fund :	INR 5987.843 Million
Registration No.:	GUJ/88/GANDHINAGAR
PAN No. : [Permanent Account No.]	AAAAI0348C
GSTN : [Goods & Service Tax Registration No.]	24AAAAI0348C2ZC
Legal Form :	Institute
Line of Business :	Subject is involved in theoretical and experimental studies in plasma science including basic plasma physics, magnetically confined hot plasmas and plasma technologies for industrial application. [From Indirect Sources]
No. of Employees :	Information declined by the management.

RATING & COMMENTS

(Mira Inform has adopted New Rating mechanism w.e.f. 23rd January 2017)

MIRA's Rating :	A+
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Credit Rating	Explanation	Rating Comments
A+	Low Risk	Business dealings permissible with low risk of default

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Status :	Good
Payment Behaviour :	Regular
Litigation :	Exist
Comments :	<p>Subject is a well-established R & D organization under the authority of Department of Atomic Energy (DAE), Government of India located in Gujarat, India.</p> <p>It is involved in theoretical and experimental plasma science including basic plasma physics, magnetically confined hot plasma and plasma technologies for industrial applications.</p> <p>ADITYA and SST-1 are the two fusion devices of the subject. ADITYA is the first indigenously designed and built tokamak of the country. It was commissioned in 1989.</p> <p>ADITYA, a medium size Tokamak, is being operated for over a decade. SST-1 (Steady State Superconducting Tokamak) is a plasma confinement experimental device in the Institute for Plasma Research (IPR), an autonomous research institute under Department of Atomic Energy, India.</p> <p>As per the financials of March 2018, the subject has witnessed grants of INR 597.96 million and has reported good corpus fund and reserves.</p> <p>Rating takes into consideration the subject's established track record along with healthy financial risk profile and experienced management team.</p> <p>Rating also takes into account the strong financial support received from Government of India.</p> <p>Payments seems to be regular.</p> <p>In view of aforesaid, the subject can be considered for business dealing at usual trade terms and conditions.</p> <p>Note- Report is prepared on available consolidated financials of the subject.</p>

NOTES :

Any query related to this report can be made on e-mail : infodept@mirainform.com while quoting report number, name and date.

EXTERNAL AGENCY RATING

Rating Agency Name	Not Available
Rating	Not Available

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Rating Explanation	Not Available
Date	Not Available

RBI DEFAULTERS' LIST STATUS

Subject's name is not enlisted as a defaulter in the publicly available RBI Defaulters' list.

EPF (Employee Provident Fund) DEFAULTERS' LIST STATUS

Subject's name is not enlisted as a defaulter in the publicly available EPF (Employee Provident Fund) Defaulters' list as of 31-03-2018.

BIFR (Board for Industrial & Financial Reconstruction) LISTING STATUS

Subject's name is not listed as a Sick Unit in the publicly available BIFR (Board for Industrial & Financial Reconstruction) list as of 28.12.2018.

IBBI (Insolvency and Bankruptcy Board of India) LISTING STATUS

Subject's name is not listed in the publicly available IBBI (Insolvency and Bankruptcy Board of India) list as of report date.

INFORMATION DECLINED

MANAGEMENT NON-COOPERATIVE [Tel. No.:91-79-23962000]

LOCATIONS

Registered Office / Campus 1 (Main) :	Bhat Village, Near Indira Bridge, Gandhinagar – 382428, Gujarat, India
Tel. No.:	91-79-23962000
Fax No.:	91-79-23962277
E-Mail :	abhijit@ipr.res.in kaw@ipr.res.in
Website :	www.ipr.res.in
Campus 2:	Facilitation Centre for Industrial Plasma Technologies (FCIPT) Institute for Plasma Research A-10/B, G.I.D.C. Electronics Estate, Sector 25, Gandhinagar - 382044, Gujarat, India
Tel. No.:	91-79-23269003
Fax No.:	91-79-23269001
E-Mail :	fcipt@ipr.res.in
Campus 3:	ITER-India Institute for Plasma Research, A-29 GIDC Electronic Estate, Sector-25, Gandhinagar – 382 016, Gujarat, India
Tel. No.:	91-79-23269500/ 23269603
Fax No.:	91-79-23269501
Campus 4:	Centre of Plasma Physics – Institute for Plasma Research(CPP-IPR) Nazirakhat, Tepesia, Sonapur 782 402 Kamrup (M), Assam, India
Mobile No.:	91-9957566947 (Office)

MANAGEMENT

Name :	Dr. Shashank Chaturvedi
Designation :	Director
Name :	Mr. Niranjana Vaishnav
Designation :	Chief Administrative Officer
Name :	Mr. P. K. Atrey
Designation :	Dean (R & D)
Name :	Dr. S. Mukherjee
Designation :	Dean (Academics and Student Affairs)
Name :	Mr. Ujjwal K. Baruah
Designation :	Dean (Administration)
Name :	Professor A. Sen

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Designation :	Emeritus Professor and INSA Sr. Scientist
GOVERNING COUNCIL:	
Name :	Dr. Sekhar Basu
Designation :	Chairman
Name :	Mr. K.N. Vyas
Designation :	Member
Name :	Dr. Amit Roy
Designation :	Member
Name :	Mr. Tapan Mishra
Designation :	Member
Name :	Dr. Siraj Hasan
Designation :	Member
Name :	Dr. Manjit Singh
Designation :	Member
Name :	Dr. S. Chaturvedi
Designation :	Member (Ex-Officio)
Name :	Mrs. Anju Sharma
Designation :	Member (Ex-Officio)
Name :	Mr. P. K. Atrey
Designation :	Non-Member Secretary (Ex-Officio)

BUSINESS DETAILS

Line of Business :	Subject is involved in theoretical and experimental studies in plasma science including basic plasma physics, magnetically confined hot plasmas and plasma technologies for industrial application. [From Indirect Sources]
Brand Names :	Not Divulged
Agencies Held :	Not Divulged
Exports :	Not Divulged
Imports :	Not Divulged
Terms :	

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Selling :	Not Divulged
Purchasing :	Not Divulged

GENERAL INFORMATION

Suppliers :	Reference:	Not Divulged
	Name of the Person (Designation):	--
	Contact Number:	--
	Since how long known:	--
	Maximum limit dealt:	--
	Experience:	--
	Remark	--
Customers :	Reference:	Not Divulged
	Name of the Person (Designation):	--
	Contact Number:	--
	Since how long known:	--
	Maximum limit dealt:	--
	Experience:	--
	Remark	--
No. of Employees :	Information declined by the management.	
Bankers :	Bank Name:	Not Divulged
	Branch:	Not Divulged
	Person Name (with Designation):	--
	Contact Number:	--
	Name of Account Holder:	--
	Account Number:	--
	Account Since (Date/ Year of A/c Opening):	--
	Average Balance Maintained (Optional):	--
	Credit Facilities Enjoyed (CC/OD/Term Loan):	--
	Account Operation:	--
	Remarks:	--

Auditors :	
Name :	T. N. Shah and Company
Address :	503, 5 th Floor, Abhishek Building, Opposite Hotel Fortune Inn Haveli, Sector – 11, Gandhinagar – 382011
Tel. No.:	91-79-23222152
Fax No.:	91-79-23241432
E-Mail :	tnshahincometax@gmail.com
Firm Registration No.:	109802/W
C. And A. G. Registration No.:	WR/0534
Memberships :	Not Divulged
Collaborators :	Not Divulged
Associates/Subsidiaries :	Not Divulged

CAPITAL STRUCTURE

AS ON 31.03.2018

CORPUS/CAPITAL FUND		
PARTICULAR	INR in Million	
Balance as at the beginning of the year		5846.550
Add : Contribution towards Corpus/Capital Fund	530.208	
Less: Adjustment to Fixed Assets In-Kind Support from External Agencies/ Adjustment to Unspent Grant	(4.666)	
Adjustment to Unspent Grant	-	
Deduct: Depreciation and Administration charged on Capital Assets for FY 2017-18 transferred to Income and Expenditure A/c	(384.008)	
Addition/Deduction in Fixed Assets during the year (transfer to/from I and E Account)	(0.241)	141.293
TOTAL		5987.843

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FINANCIAL ANALYSIS
[all figures are in INR Million]

ABRIDGED BALANCE SHEET [CONSOLIDATED]

PARTICULAR	31.03.2018	31.03.2017	31.03.2016
CORPUS/CAPITAL FUND AND LIABILITIES			
Corpus/Capital Fund	5987.843	5846.550	5695.034
Reserves And Surplus	16595.352	12934.357	12703.923
Earmarked/ Endowment Funds	375.671	371.312	379.879
Current Liabilities and Provisions			
Sundry Creditors	7.601	5.333	16.391
Other Current Liabilities	55.032	71.739	13.513
Divisions	361.872	3.636	
Provisions	2552.903	2457.956	1851.529
Total Current Liabilities and Provisions	2977.408	2538.664	1881.433
TOTAL	25936.274	21690.883	20660.269
ASSETS			
Fixed Assets	9913.285	9432.490	8506.599
Current Assets, Loans, Advances etc.			
Current Assets			
Inventories	7.608	6.935	7.423
Sundry Debtors	2.260	0.750	1.407
Cash & Bank Balances	3385.224	3064.224	4099.820
Total Current Assets	3395.092	3071.909	4108.650
Loans, Advances and other Assets :			
Loans	28.187	32.103	35.406
Advances and amounts recoverable in cash or in kind or for value to be received:			7984.052
Income Accrued	23.329	21.344	25.562
Total Loans, Advances and other Assets :	12627.897	9186.484	8045.020
TOTAL ASSETS	25936.274	21690.883	20660.269

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PROFIT & LOSS ACCOUNT [CONSOLIDATED]

PARTICULAR	31.03.2018	31.03.2017	31.03.2016
INCOME			
Grants- Department of Atomic Energy, Govt. of India	5979.600	5121.902	8040.963
Interest Earned	220.939	265.024	192.172
Other Income	9.795	10.720	6.982
Profit on Sale of Assets	2.923	--	--
TOTAL INCOME	6213.257	5397.646	8240.117
EXPENDITURE			
Establishment Expenses	1378.509	1574.283	1031.426
Other Administrative Expenses	648.438	1058.965	855.215
Depreciation & Amortizations of Intangible Assets	384.008	451.796	387.490
Less : Transfer from Corpus/Capital Fund	(384.008)	(451.796)	(387.490)
National Fusion Programme (Human Resource Development Expenses)	--	1.487	3.354
Cash Contribution to ITER IO	--	1926.317	1061.177
Loss on Disposal of Capital Assets / Write Off	--	0.224	0.257
TOTAL EXPENDITURE	2026.947	4561.276	2951.429
BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE/ (EXCESS OF EXPENDITURE OVER INCOME)	4186.310	836.370	5288.688
Transfer to Corpus Fund for addition to Movable & Immovable Properties	530.208	607.197	1366.404
Transfer From Corpus Fund for w/off to Movable & Immovable Properties	0.256	0.622	(20.012)
Transfer to Iter India Fund (Interest earned)	115.709	146.643	141.329
Transfer to/from unspent Grant A/c	3540.619	83.139	3800.968
FOREIGN CURRENT TRANSACTION			
Value of Imports Calculated on C.I.F. Basis			
Capital Goods	310.604	573.674	801.419
Consumable in Foreign Currency	57.586	95.817	80.061

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RECEIPTS AND PAYMENTS [CONSOLIDATED]

PARTICULAR	31.03.2018	31.03.2017	31.03.2016
RECEIPTS			
I. Opening Balances			
a) Cash in hand	0.040	0.045	0.037
b) Bank Balances			
i) In Current accounts	42.780	47.878	79.041
ii) In deposit accounts	2989.889	3999.813	1598.801
iii) Savings accounts	28.535	52.083	3.344
iv) Margin Money With Bank	3.015	0.000	7.813
II. Grant Received			
a) From Govt. of India- DAE	5979.600	5121.902	7998.388
III. Interest Received			
a) On Bank Deposits	217.950	267.867	173.530
b) Loans, Advances etc.	1.003	1.329	1.568
c) Int. on I.T. Refund	0.000	0.043	0.130
IV. Other Income			
Other Income	6.906	6.572	6.674
Royalty & Transfer Fee Income	2.889	4.204	0.251
V. Any Other receipts			
Amount received for Earmarked/ Endowment Funds	64.879	33.705	85.583
Security Deposits	11.102	16.819	0.000
Others	723.728	297.980	478.115
Receipt of LT Advances to Empl.	2.920	2.411	2.104
Sale of Capital Assets	3.148	0.202	0.352
TOTAL	10078.384	9852.853	10435.731
PAYMENTS			
I. Expenses			
a) Establishment Expenses	1283.561	948.526	817.020
b) Administrative Expenses	669.048	1021.806	849.152
c) National Fusion Programme (Human Resource Development Expenses)	0.000	1.487	3.354
d) Cash Contribution to ITER-IO	0.000	1926.317	1061.176
II. Exp. on Fixed Assets, Cap. WIP & Others			
a) Purchase of Fixed Assets & other exp.	529.655	608.324	1091.380
b) Expenditure on Capital WIP	334.835	780.770	184.133

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III. Refund of Surplus money/Loans			
a) Deposits with Government Auth. & Suppliers/Security Deposits	4.232	1.962	30.694
b) Payments against Earmarked Funds	60.521	42.322	96.925
IV. Other Payments (Specify)			
a) Advances to Contractors & Suppliers (Including Adv. for Capital Works)	3441.081	1451.207	2187.505
b) Deposit with Government Auth. and Suppliers / Security Deposits	3.174	0.010	3.392
c) Stock (Change in closing Bal.)	0.736	0.000	
d) Payment of LT Advances to Empl.	364.233	0.430	1.405
e) Others	2.021	5.432	9.776
V. Closing Balances			
a) Cash in hand	0.066	0.040	0.045
b) Bank Balances			
i) In Current accounts	21.408	42.780	47.878
ii) In deposit accounts	3338.840	2989.889	3999.813
iii) Savings accounts	24.973	28.535	52.083
iv) Margin Money With Bank	0.000	3.015	0.000
TOTAL	10078.384	9852.853	10435.731

LEGAL CASE

CITY CIVIL AND SESSIONS COURT, AHMEDABAD
Case Details

Case Type	: Comm CS - Commercial Civil Suit		
Filing Number	: 381/2016	Filing Date:	27-12-2016
Registration Number	: 2/2017	Registration Date:	06-01-2017
CNR Number	: GJAH02-014920-2016		

Case Status

First Hearing Date	: 06th January 2017
Next Hearing Date	: 23rd June 2017
Stage of Case	: HEARING (SINEDIE CASE)
Court Number and Judge	: 61-VACANT COURT

Petitioner and Advocate

1) BHAGWATI SPHEROCAST PRIVATE LIMITED
Address - 1, KRISHNA SOCIETY, ELLISBRIDGE, AHMEDABAD AND AT. 132, GIDC ODHAV, ODHAV, AHMEDABAD-382415
Advocate- U.R.BHATT

Respondent and Advocate

1) INSTITUTE OF PLASMA RESEARCH THROUGH ITS DIVISION FACILITATION CENTER FOR INDUSTRIAL PLASMA TECHNO
Address - DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA, A-10/B, SECTOR-25, GIDC ELECTRONICS ESTATE, GANDHINAGAR

Acts

Under Act(s)	Under Section(s)
CODE OF CIVIL PROCEDURE, 1908	1

History of Case Hearing

Registration Number	Judge	Business On Date	Hearing Date	Purpose of hearing
2/2017	VACANT COURT	06-01-2017 (https://verify24x7.in/live/cashtml3.php?link=https%3A%2F%2Ffullhtml.s3-us-west-2.amazonaws.com%2Fa7910e56865dcb41bd9a2cfd45e1cc2b&id=17-13-21#)	28-03-2017	HEARING (SINEDIE CASE)
2/2017	VACANT COURT	28-03-2017	23-06-2017	HEARING (SINEDIE CASE)

LOCAL AGENCY FURTHER INFORMATION

Sr. No.	Check list by info agents	Available in Report (Yes/No)
1	Year of establishment	Yes
2	Constitution of the entity -Incorporation details	Yes
3	Locality of the entity	Yes
4	Premises details	No
5	Buyer visit details	--
6	Contact numbers	Yes
7	Name of the person contacted	No
8	Designation of contact person	No
9	Promoter's background	Yes
10	Date of Birth of Proprietor / Partners / Directors	No
11	Pan Card No. of Proprietor / Partners	No
12	Voter Id Card No. of Proprietor / Partners	No
13	Type of business	Yes
14	Line of Business	Yes
15	Export/import details (if applicable)	No
16	No. of employees	No
17	Details of sister concerns	No
18	Major suppliers	No
19	Major customers	No
20	Banking Details	No
21	Banking facility details	No
22	Conduct of the banking account	--
23	Financials, if provided	Yes
24	Capital in the business	Yes
25	Last accounts filed at ROC, if applicable	Yes
26	Turnover of firm for last three years	Yes
27	Reasons for variation <> 20%	--
28	Estimation for coming financial year	No
29	Profitability for last three years	Yes
30	Major shareholders, if available	No
31	External Agency Rating, if available	No
32	Litigations that the firm/promoter involved in	Yes
33	Market information	--
34	Payments terms	No
35	Negative Reporting by Auditors in the Annual Report	No

HISTORY

The Institute for Plasma Research can trace its roots back to early 1970's when a coherent and interactive programme of theoretical and experimental studies in plasma physics with an orientation towards understanding space plasma phenomena was established at the Physical Research laboratory.

The early studies were on simulation of E x B instabilities characteristic of the equatorial electrojet, plasma-neutral gas interaction with relevance to the cometary plasma-solar wind interaction and single particle confinement in non-adiabatic magnetic mirrors. Experiments on non-linear ion acoustic waves and double layers were added later. High power plasma experiments using intense electron beams to form compact toroids and electron rings in toroidal devices started in 1978 reflected a re-orientation to fusion-relevant experiments.

A proposal to the Government of India to initiate studies on magnetically confined high temperature plasmas was accepted in 1982 and resulted in establishment of the Plasma Physics Programme (PPP) supported by the Department of Science and Technology. Design and engineering of India's first tokamak ADITYA started at the same time. In 1984 the activities moved into an independent campus at Bhat village in the outskirts of Ahmedabad city in 1984.

The PPP evolved into the autonomous Institute for Plasma Research under the Department of Science and Technology in 1986. With the commissioning of ADITYA in 1989, full-fledged tokamak experiments started. A dynamic experimental programme focusing on transport due to edge turbulence has resulted in major discoveries in this field. This period also saw development of new programmes in plasma processing and basic and computational plasma research.

With the decision to build the second generation superconducting steady state tokamak SST-1 capable of 1000 second operation in 1995, the institute grew rapidly and came under the administrative umbrella of the Department of Atomic Energy. Major new programmes in pulsed power, advanced diagnostics, computer modelling, development of RF and neutral beam heating systems etc. also came into being. The industrial plasma activities were reorganised under the Facilitation Centre for Industrial Plasma Technologies and moved to a separate campus in Gandhinagar in 1998.

IPR is now internationally recognized for its contributions to fundamental and applied research in plasma physics and associated technologies. It has a scientific and engineering manpower of 200 with core competency in theoretical plasma physics, computer modeling, superconducting magnets and cryogenics, ultra-high vacuum, pulsed power, microwave and RF, computer-based control and data acquisition and industrial, environmental and strategic plasma applications.

AWARDS AND ACHIEVEMENTS

Observation of the Korteweg-de Vries soliton in molecular dynamics simulations of a dusty plasma medium.

Sandeep Kumar, Amita Das, and Sanat Kumar Tiwari received Best Student Poster Award at 8th International Conference on the Physics of Dusty Plasmas, Prague, Czech Republic, 20-25 May 2017.

Mr. S. Shravan Kumar won the consolation prize for Cartoon Competition and Dr. Sandhya Dave won a consolation prize for Hindi Safety Slogan Competition. The award was presented at 34th DAE Safety & Occupational Health Professionals Meet-2017 which was jointly held by Atomic Energy Regulatory Board (AERB) and Kudankulam Nuclear Power Project (KKNPP), NPCIL at Kudankulam, Tamilnadu from 28 to 30 June, 2017.

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Mr. Santosh P. Pandya was awarded a Springer Prize for his presentation "A synthetic diagnostic to simulate bremsstrahlung emission from the confined runaway electrons in tokamaks and application for runaway electron diagnostic design" co-authored by Laura Core, Alexander Shevelev, Joël Rosato, Robin Barnsley, Roger Reichle, Luciano Bertalot, Michael Lehnen and Michael Walsh at the Summer School of Plasma Diagnostics (PhDiaFusion 2017) was held at Podlesice, Poland from 11-15 September 2017.

Ms. Priti Kanth, PhD Scholar, won the second prize for the poster entitled "Development of Multipoint Nuclear Activation Code for Fusion Devices" presented at the International Conference on High Energy Radiation and Applications (ICHERA-2017), which was held at the Maharaja Sayajirao University of Baroda, Vadodara, Gujarat from 10-13 October 2017.

Awards won at 32nd National Symposium on Plasma Science & Technology (PLASMA-2017), Institute for Plasma Research, Gandhinagar, 07-10 November 2017.

Design of a High CW Power Circulator for LHCD System of SST-1 Tokamak.

P. K. Sharma, Harish V. Dixit, Yogesh M. Jain, Aviraj R. Jadhav, Alice N. Cheeran, Vikas N. Gupta (1st PSSI-Sholapurwala Award) Water Cooling System for SST Neutral Beam Injection System: From Concept to Engineering Design M. R. Jana, Sudhir. K. Sharma, M. M. Vasani, S. Rambabu, B. Sridhar, K. A. Qureshi, S. K. Sharma, V. Prahlad, P. J. Patel, U. K. Baruah and NBI Team (1st PSSI-Sholapurwala Award for Fusion Research) Manufacturing Aspects for Long Length Superconducting Cable in Conduit Conductors Mahesh Ghatge, Piyush Raj, Arun Panchal, Dhaval Bhavsar, Upendra Prasad, R.Srinivasan (2nd PSSI-Sholapurwala Award).

Role of Helium Leak Detection in SST-1 Cryogenics System H.D. Nimavat, N. Bairagi, R. Sharma, G. Purwar, A. Garg and V. L. Tanna (2nd PSSI-Sholapurwala Award) Effects of Kinetic Ions on the Driven Phase Space Structures in a 1-D Vlasov Plasma Pallavi Trivedi, Rajaraman Ganesh (Best Oral PSSI Presentation Award) Overview of Actys Project on Development of Indigenous State-of-the-Art Code Suites for Nuclear Activation Analysis P.V. Subhash, Sai Chaitanya Tadepalli, Priti Kanth, R. Srinivasan and Shishir P. Deshpande (Oral PSSI Presentation Award - Plasma & vacuum technologies) Interaction of Atmospheric Pressure Plasma JET with Lung Cancer Cell Line (A549) Akshay Vaid, Anu Ghosh, Chirayu Patil, Nishad.S, Adam Sanghariyat, Ramkrishna Rane, Subroto Mukherjee (PSSI Poster Award - ATOS Marketing) Experimental Investigation of Crystal Structures and Phase Transition in DPEX Hari Prasad M. G., Garima Arora, P. Bandyopadhyay and Abhijit (PSSI Poster Award I-Design) Zero-Dimensional Modeling of ECRH-Assisted Plasma Start-Up in SST-1 Amit K. Singh, I. Bandyopadhyay, Santanu Banerjee, R. Srinivasan (PSSI Poster Award I-Design) Characterization of Atmospheric Pressure Plasma JET Using Optical Emission Spectroscopy.

P. Bharathi, Akshay Vaid, Chirayu Patil, Adam Sanghariyat, Ramkrishna Rane and S. Mukherjee (PSSI Poster Award - Rittal Systems) Inward Turbulent Particle Flux in ETG Dominated Plasma of LVPD Prabhakar Srivastav, Rameswar Singh, L. M. Awasthi, A. K. Sanyasi, P. K. Srivastava, R. Sugandhi, R. Singh and P.K. Kaw (PSSI Poster Award).

Optical Emission Spectroscopy and Electrical Modelling of Atmospheric Pressure Micro Plasma Jets Kalyani Barman, Pawan Pal, Sudeep Bhattacharjee, Sudhir K. Nema, and Ramkrishna Rane (PSSI Poster Award) Study of Particle Transport Due to Electromagnetic Fluctuations in ETG Suitable Plasma of LVPD Prabhakar Srivastav, Rameswar Singh, L. M. Awasthi, A. K. Sanyasi, P. K. Srivastava, R. Sugandhi, R. Singh and P.K. Kaw (Best poster award in Basic plasma physics category)

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Mr. Ravi Pandey, won the third prize for the poster entitled "Vacuum Brazing Route for Manufacturing of Large Size Ion Source" presented at the Indian Particle Accelerator Conference (InPAC-2018), which was held at the Raja Ramanna Centre of Advance Technology (RRCAT), Indore from 09-12 January 2018.

FIXED ASSETS:

Tangible Asset:

- Land
- Building
- Plant Machinery And Equipment
- Furniture and Fixture
- Office and General Equipment
- Computer / Peripherals
- Electric Installation
- Library Books/ Journals
- Computer

Intangible Asset:

- Computer Software
- Patents

PRESS RELEASE

INDIA TO REBOOT INR 2350.000 MILLION SUPERCONDUCTING FUSION TOKAMAK: 7 THINGS TO KNOW

June 21, 2018

The need for clean, renewable and limitless energy has taken humanity from burning wood to obtaining energy from the sun via photovoltaic cells. And next in the line of clean energy are fusion reactors which are touted to be "mini suns" on earth.

Fusion reactions occur when two light atomic nuclei fuse together to form a heavier nucleus and release energy. Devices designed to harness this energy are called fusion reactors.

As simple as that sounds, it is the exact opposite when it comes to executing it. But that won't deter experimentation.

The Steady State Superconducting Tokamak or SST-1 is one such experimental fusion reactor in the Institute for Plasma Research (IPR), Gujarat.

With just four months to go, the 27th International Atomic Energy Agency (IAEA) Fusion Energy Conference will be held in Gandhinagar, Gujarat. The conference aims to demonstrate the technological feasibility of fusion power plants as well as their economic viability.

Scientists at IPR are currently under the process of rebooting the experiment to meet the deadline of the IAEA Fusion Energy Conference. And the SST-1 will be one of the prime experiments to be showcased because of its unique capabilities.

Tokamaks are a type of fusion reactors which use magnetic force to manipulate plasma. Plasma is a type of matter where electrons are separated from neutrons, and this separation is usually achieved by heat. And India is a select few countries to own a Tokamak reactor.

So here are few things to know about the SST-1 fusion reactor that may be the answer to clean and limitless energy.

- The 2350.000 Million SST mission started way back in 1994 and was conceptualised by 2005. But it was only fully commissioned by 2013. And until December of 2017, it has conducted about 20 experiments.
- By 2015, the SST produced repeatable plasma discharges up to ~ 500 ms with plasma currents more than 75,000 A. This gave incredible insights on how to stabilise the fusion for future experiments.
- One of the great things about fusion reactors is that they use hydrogen and isotopes of hydrogen. This means energy could even be extracted from a glass of water with no harmful byproducts.
- Routine experimentation in December 2017 revealed that the SST suffered some damage in its toroidal magnet system. "The damage is minimum. We will revive the reactor soon," a senior IPR scientist, now part of the SST-1 team, told The Times of India.

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- The SST-1 makes use of extreme heat and strong magnetic field to fuse hydrogen isotopes and perform thermo-nuclear fusion. This results in temperatures 20 times greater than the sun's core and a magnetic field equivalent to 1,000 times that of the earth's normal magnetic field.

INDIA LAGGING IN SCIENTIFIC RESEARCH DUE TO OFFICE POLITICS: GUJARAT HIGH COURT

September 15, 2018

AHMEDABAD: The Gujarat high court on Friday slammed office politics plaguing key research institutes and observed that India was lagging in scientific research because of such politics. Justice Anant Dave made the observation when a senior scientist of the Institute of Plasma Research (IPR) Subrata Pradhan, approached the high court complaining that he was suspended from his job by the institute's director me.

Pradhan said that he has been victimized for no fault after the institute got a new director, Shashank Chaturvedi, in 2016, who Pradhan alleged, sees him as a threat to his post. After perusing Pradhan's petition, Justice Dave of the division bench said, "We play politics and hence my country is like this. If we encourage our own scientists and give them freedom of research, we do not need any foreign scientist."

The judge further said that scientists are trained in India at premier institutes and the petitioner is one such example. The judge even pointed out that Pradhan's lawyer, former IPS officer Rahul Sharma, too was a graduate of IIT-Kanpur. "If local talent is encouraged, the country need not rely on foreign scientific intervention," the judge said. A scientist of top rank, Pradhan moved the high court after he was suspended from service on August 28 without getting any opportunity to respond to accusations of irregularities levelled against him. Pradhan has requested the high court to quash the suspension order and contended that the allegations made in the 'memorandum calling explanations' related to events that were as many as 10 years old.

"There were many other people involved in committees that took decisions, against which the director has objections, but I am the only person who has been singled out and targeted,"

Pradhan joined IPR in 1995 and received various awards during his 23-year stint with the institute. He further stated that as soon as Chaturvedi became IPR director in 2016, he began harassing him and narrated the series of events that ultimately led to his suspension.

Pradhan has also argued that his suspension is legally wrong because he was suspended by the director whereas the power actually lies with the governing council. After preliminary hearing, the high court issued a notice to the director and posted further hearing on September 24.

CMT REPORT (Corruption, Money Laundering & Terrorism]

The Public Notice information has been collected from various sources including but not limited to: **The Courts, India Prisons Service, Interpol, etc.**

1] INFORMATION ON DESIGNATED PARTY

No records exist designating subject or any of its beneficial owners, controlling shareholders or senior officers as terrorist or terrorist organization or whom notice had been received that all financial transactions involving their assets have been blocked or convicted, found guilty or against whom a judgement or order had been entered in a proceedings for violating money-laundering, anti-corruption or bribery or international economic or anti-terrorism sanction laws or whose assets were seized, blocked, frozen or ordered forfeited for violation of money laundering or international anti-terrorism laws.

2] Court Declaration :

No records exist to suggest that subject is or was the subject of any formal or informal allegations, prosecutions or other official proceeding for making any prohibited payments or other improper payments to government officials for engaging in prohibited transactions or with designated parties.

3] Asset Declaration :

No records exist to suggest that the property or assets of the subject are derived from criminal conduct or a prohibited transaction.

4] Record on Financial Crime :

Charges or conviction registered against subject: **None**

5] Records on Violation of Anti-Corruption Laws :

Charges or investigation registered against subject: **None**

6] Records on Int'l Anti-Money Laundering Laws/Standards :

Charges or investigation registered against subject: **None**

7] Criminal Records

No available information exist that suggest that subject or any of its principals have been formally charged or convicted by a competent governmental authority for any financial crime or under any formal investigation by a competent government authority for any violation of anti-corruption laws or international anti-money laundering laws or standard.

8] Affiliation with Government :

No record exists to suggest that any director or indirect owners, controlling shareholders, director, officer or employee of the company is a government official or a family member or close business associate of a Government official.

9] Compensation Package :

Our market survey revealed that the amount of compensation sought by the subject is fair and reasonable and comparable to compensation paid to others for similar services.

10] Press Report :

No press reports / filings exists on the subject.

CORPORATE GOVERNANCE

MIRA INFORM as part of its Due Diligence do provide comments on Corporate Governance to identify management and governance. These factors often have been predictive and in some cases have created vulnerabilities to credit deterioration.

Our Governance Assessment focuses principally on the interactions between a company's management, its Board of Directors, Shareholders and other financial stakeholders.

CONTRAVENTION

Subject is not known to have contravened any existing local laws, regulations or policies that prohibit, restrict or otherwise affect the terms and conditions that could be included in the agreement with the subject.

FOREIGN EXCHANGE RATES

Currency	Unit	INR
US Dollar	1	INR 70.33
UK Pound	1	INR 88.98
Euro	1	INR 80.02

INFORMATION DETAILS

Information Gathered by :	AKS
Analysis Done by :	VIK
Report Prepared by :	RSH

SCORE FACTORS

DEMERIT POINTS		
--BANK CHARGES	YES/NO	NO
--LITIGATION	YES/NO	YES
--OTHER ADVERSE INFORMATION	YES/NO	NO
MERIT POINTS		
--SOLE DISTRIBUTORSHIP	YES/NO	NO
--EXPORT ACTIVITIES	YES/NO	NO
--AFFILIATION	YES/NO	NO
--LISTED	YES/NO	NO
--OTHER MERIT FACTORS	YES/NO	YES

RATING EXPLANATIONS

Credit Rating	Explanation	Rating Comments
A++	Minimum Risk	Business dealings permissible with minimum risk of default
A+	Low Risk	Business dealings permissible with low risk of default
A	Acceptable Risk	Business dealings permissible with moderate risk of default
B	Medium Risk	Business dealings permissible on a regular monitoring basis
C	Medium High Risk	Business dealings permissible preferably on secured basis
D	High Risk	Business dealing not recommended or on secured terms only
NB	New Business	No recommendation can be done due to business in infancy stage
NT	No Trace	No recommendation can be done as the business is not traceable

NB is stated where there is insufficient information to facilitate rating. However, it is not to be considered as unfavourable.

This score serves as a reference to assess SC's credit risk and to set the amount of credit to be extended. It is calculated from a composite of weighted scores obtained from each of the major sections of this report. The assessed factors are as follows:

- Financial condition covering various ratios
- Company background and operations size
- Promoters / Management background
- Payment record
- Litigation against the subject
- Industry scenario / competitor analysis
- Supplier / Customer / Banker review (wherever available)

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