# F. No. IA-J-11011/289/2020-IA-II(I) Government of India Ministry of Environment, Forest and Climate Change

Impact Assessment Division

Indira Paryavaran Bhavan, Vayu Wing, 3<sup>rd</sup> Floor, Aliganj, Jor Bagh Road, New Delhi-110 003

Dated: 6th August, 2021

To.

M/s MG Organics Pvt. Ltd., MG House, H-25, Alpha-2, Greater Noida, Gautam Buddha Nagar Uttar Pradesh-201310

E-mail: mgorganicsmathura@gmail.com

Sub: Setting up of Pesticide Manufacturing project by M/s MG Organics Pvt. Ltd., located at Plot No. Q-2/6&7, UPSIDC Industrial Area, Kosi Kotwan Extension -2 District- Mathura, Uttar Pradesh -Environmental Clearance regarding.

Sir.

This has reference to your online proposal No. IA/UP/IND2/183990/2020 dated 26<sup>th</sup> April, 2021 and letter dated 1<sup>st</sup> June, 2021 for environmental clearance to the above-mentioned project.

- 2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up of Pesticide Manufacturing project of combined capacity 700 TPM & Formulation 300 TPM by M/s MG Organics Pvt. Ltd., located at Plot No. Q-2/6&7, UPSIDC Industrial Area, Kosi Kotwan Extension -2 District- Mathura, Uttar Pradesh.
- 3. The project/activities are covered under category 'A' of item 5(b) 'Pesticides industry and pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.
- 4. The details of proposed products and capacity are as under:-

S. No.		Capacity (TPM)	CAS No.	
	, r.	INSECTICIDE GROUP		
1	Diafenthiuron		200	80060-09-9
2	Spiromesifen			283594-90-1
,3	Novaluron			116714-46-6
4	Pyriproxyfen			95737-68-1

5	Acetamiprid		135410-20-7
6	Dinotefuran	1 1	165252-70-0
7	Nitenpyram	150824-47-8	
8	Thiamethoxam		153719-23-4
9	Pymetrozine		123312-89-0
10	Lamda-Cyhalothrin		68085-85-8
11	Bifenthrin		82657-04-3
12	Profenophos		41198-08-7
13	Chlorantraniliprole	Page 1 and 1	500008-45-7
14	Flubendiamide		272451-65-7
	FUNGICIDE	GROUP	
15	Thifluzamide	100	130000-40-7
16	Azoxistrobin		131860-33-8
17	Pyraclostrobin		175013-18-0
18	Tebuconazole	1500	107534-96-3
19	Difenoconazole	119446-68-3	
	HERBICIDE	GROUP	
20	Bensulfuron	100	83055-99-6
21	Pyrazosulfuron	1	93697-74-6
22	Penoxsulam		219714-96-2
23	Glufosinate		77182-82-2
24	Glyphosate	SHE	1071-83-6
25	Pretilachlor	No allowed by the control of	51218-49-6
26	Clodinafop		105512-06-9
27	Quizalofop		100646-51-3
28	Clomazone		81777-89-1
			21087-64-9
29	Metribuzin		21007 010

31	1,2, 4 Triazole	100	288-88-0
32	2- Chloro 5- Chloromethyl Pyridine (CCMP)		70258-18-3
33	2- Nitroaminoimidazoline (NII)		5465-96-3
34	2- Chloro 5- ChloromethylThiazole (CCMT)		105827-91-6
35	3-Methyl-4-nitroiminoperhydro-1,3,5-oxadiazine		153719-38-1
36	(R)-(+)-2-(4-Hydroxyphenoxy) propionic acid		94050-90-5
37	1,1-Di ChloroPinacolin		22591-21-5
38	4-Amino-6-(tert-butyl)-3-mercapto-1,2,4-triazin-5(4H)-one		33509-43-2
39	Research & Development Based Products	200	
	TOTAL	700	
40	Formulations	300	

- 5. Standard Terms of Reference (TOR) was issued by MoEF&CC vide letter no. IA-J-11011/289/2020-IA-II(I) dated 27.11.2020. As the site falls in approved industrial area, hence public hearing/public consultation is exempted for the proposal. No litigation is pending against the proposal
- 6. Total land area of 10067.15 m² has been proposed for the project. Industry will develop greenbelt in an area of 40 % out of total area of the project. The estimated project cost is Rs.12.93 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.196 Lakhs and the Recurring cost (operation and maintenance) will be about Rs.50 Lakhs per annum. Total Employment will be 90 persons as direct & indirect employment. Industry proposes to allocate Rs.20 Lakhs towards Corporate Environmental Responsibility.
- 7. There are no National Park, Wildlife Sanctuary, Biosphere Reserves, Elephant / Tiger Reserve, wildlife corridors etc. present within 10 Km radius of plant site. Distributary of Kosi is flowing at distance of 2.18 km in SE direction, Distributary of Nandgaon is flowing at a distance of 2.29 km in NW direction, Agra canal is flowing at a distance of 1.90 km in E direction and Shergarh Distributary is flowing at a distance of 6.87 km in NE direction.
- 8. Ambient air quality monitoring was carried out at 8 locations during 1st October 2020 to 31st December 2020 and the baseline data indicates the ranges of concentrations as: PM<sub>10</sub> (52-135  $\mu$ g/m³), PM<sub>2.5</sub> (24-66  $\mu$ g/m³), SO<sub>2</sub> (6.1-17.3  $\mu$ g/m³) and NO<sub>2</sub> (12.7-43.7  $\mu$ g/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.78  $\mu$ g/m³, 0.64  $\mu$ g/m³, 1.61  $\mu$ g/m³ and 3.43  $\mu$ g/m³ with respect to PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub> & SO<sub>2</sub>. All parameter concentrations are within the National Ambient Air Quality Standards (NAAQS) except PM<sub>10</sub> and PM<sub>2.5</sub> at two locations (Nabipur and Kosi Kalan Industrial Area). The Committee found the detailed action plan proposed by the PP to be satisfactory and the emission from the unit shall be controlled with modern pollution control technologies.

- 9. The total water requirement for the project will be 140 KLD of which fresh water requirement of 95 KLD will be met from borewell. Effluent will be 47 KLD (including domestic sewage). 4 KLD domestic sewage will be treated in Sewage Treatment Plant of capacity 10 KLD. 37 KLD (36 KLD Process Effluent + 1 KLD DM Plant Effluent) will be treated in MEE (Capacity 75 KLD) of which, 4 KLD distillate along with rest of 6 KLD industrial effluent will be treated in ETP followed by RO (Capacity- 50 KLD) treatment. The project will be a "Zero-liquid Discharge" Project.
- 10. Power requirement of the plant will be 1000 kVA which will be met from Uttar Pradesh Power Corporation Limited (UPPCL). DG sets of capacity 1x250 kVA and 1x500 kVA will be installed as stand by during power failure. Stack (height 25 m) will be provided as per CPCB norms to the proposed DG sets. 1 x 2 TPH and 1 x 3 TPH agro-waste briquette fired boiler will be installed in the plant. ESP with the stack of height of 32 m will be installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm3 for the proposed boiler.

#### 11. Details of Process emissions generation and its management:

Stack No.	Stack Attached to	Stack Height	Fuel Used	APCS	Expected Pollutants
1	Steam Boiler (2 TPH, 3 TPH)	32	Agro-waste Briquette	ESP System	PM, SO <sub>2</sub> & NO <sub>x</sub>
2	DG Set (1x250 kVA, 1x500 kVA)	25	HSD		PM, CO SO <sub>2</sub> & NO <sub>x</sub>
	71	Pr	ocess Stacks	/ Vents	
3	Process Reactor Vents	32	-	Two stage water scrubbers	HCI
4	Process Reactor Vents	32	- )	Two stage water HBr scrubbers	
5	Process Reactor Vents	32	PRINTS	Two stage Alkali Scrubber (1st Stage- Water & 2nd Stage- Alkali)	
6	Process Reactor Vents	32		Two stage Alkali Scrubber (1st Stage- Water & 2nd Stage- Alkali)	

## 12. Details of Solid waste & Hazardous waste generation and its management:

Sr. No	Type of waste	Category (As per Schedule I & II, 2016)	Quantity (Per Annum)	Mode of Treatment Disposal Method	&
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		Hazardoi	us Waste	
			us waste	
1	Chemical Sludge from wastewater Treatment (ETP sludge + Waste left after Evaporation)	35.3	350MT	Collection, Storage, Transportation, and disposal at Nearest common TSDF site
2	Concentration & evaporation Residue.	37.3	100MT	Collection, Storage, Transportation, and disposal at Nearest common TSDF site
3	Discarded Containers/barrel/liners/ contaminated with wastes/chemicals	33.1	6000 Nos	Collection, Storage, Transportation, and disposal at Nearest common TSDF site
4	Used/spent oil	5.1	0.5MT	Collection, Storage, Transportation, and disposal at Nearest common TSDF site
5	Carton/liners contaminated with hazardous chemicals & waste	33.1	4000 Nos	Collection, Storage, Transportation, and disposal at Nearest common TSDF site
	N	on-Hazardo	us/Industrial	BA .
6	Ash from coal Based boiler		100 MT	Collection, Storage, Transportation, and disposal at Nearest common TSDF site
7	Empty barrels (used for non-hazardous material)		8000 Nos	Collection, Storage, Transportation, and disposal at Nearest common TSDF site
8	Scrap metals		20MT	Collection, Storage, Transportation, and disposal at Nearest common TSDF site
		Process	waste	1
9.	Spent Solvents	5.1	80MT	Collection, Storage, Transportation, and disposal at Nearest common TSDF site
		Municipa	l Waste	

10.	The waste	municipal	solid	-	50 kg/day	Will be Segregated in biodegradable waste and recyclable waste. Recyclable waste will be sold off to authorized vendors and Biodegradable waste will be disposed off in MSW disposal pit to get converted to manure for
				Secretary and second		horticulture purposes.

13. The proposal was considered by the EAC (Industry-3 Sector) in its 11<sup>th</sup> meeting held on 31st May, 2021 & 1st June, 2021. The project proponent and their accredited consultant M/s. EQMS India Pvt. Ltd., made a detailed presentation through Video Conferencing (VC) and have presented the PFR/EMP report.

The EAC, constituted under the provision of the EIA Notification, 2006 comprising Experts Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report are in compliance of the ToR issued for the project, considering the present environmental concerns and the projected scenario for all the environmental components. The Committee found the baseline data and incremental GLC due to the proposed project within NAAQ standards except PM<sub>10</sub> and PM<sub>2.5</sub> at certain sites in the study area. The action plan proposed and the pollution control measures proposed by the PP were found to be satisfactory. The Committee also deliberated on the activities/action plans and found to be addressing to the issues in the study area. The Committee suggested that the storage of toxic/explosive raw material shall be bare minimum in quantity and inventory. The Committee suggested that the greenbelt development shall be taken up actively by the PP and trees shall be planted considered 2m x 2m ratio. The PP informed the Committee that the project site is not located in the Critically Polluted Area. The CPA is restricted to Mathura Industrial area only and the existing site is located at about 48 km from it. However, in Form 2, PP mentioned that the site is in CPA.

The Committee suggested that the ash shall be used as manure/soil conditioner. The PP in coordination with State Forest Department shall make efforts for the development for reserve forest in the study area. The Committee pointed out that the PP proposed to manufacture certain products which is banned or proposed (draft notification issued) to be banned by the Government of India. The Committee noted that the project proponent submitted an undertaking stating that greenbelt intensity shall be increased (838 tree @2500 trees/ha) and plantation as per working plan of the reserve forest shall be made. It is also stated that the greenbelt shall be developed to 40%.

The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendation for grant of environmental clearance to the proposal. The Experts Members of the EAC also found the proposal in order and recommended for the grant of environmental clearance.

- 14. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.
- **15.** The matter was examined in the Ministry and the TTZ Division has provided their comments and mentioned that the UPSIDC Industrial Area, Kosi Kotwan, Mathura (UP) is located at the distance of about 12 km from the northern boundary of TTZ. Since, the proposed project site is situated within the UPSIDC Industrial Area, which is located outside TTZ boundaries, regulations pertaining to TTZ are not applicable on this project.
- Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-3 Sector), the Ministry of Environment, Forest and Climate Change hereby accords Environmental clearance to the project for Setting up of Pesticide Manufacturing project by M/s MG Organics Pvt. Ltd., located at Plot No. Q-2/6&7, UPSIDC Industrial Area, Kosi Kotwan Extension -2 District-Mathura, Uttar Pradesh, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

## A. Specific Conditions:

- (i) No banned pesticides/chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.
- (ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture. Domestic effluent shall be treated in STP and used for greenbelt development.
- (iv) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

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- (v) The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
- (vi) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (ix) Necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents.
- (x) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xi) Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.996% with effective chillers/modern technology.
- (xii) Total fresh water requirement shall not exceed 95 cum/day, proposed to be met from ground water. Prior permission in this regard shall be obtained from the concerned regulatory authority/CGWA.
- (xiii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xiv) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of byproducts from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.
- (xv) The green belt of at least 5-10 m width shall be developed in nearly 40% of the total project area, mainly along the plant periphery/adjacent areas. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.

  Trees have to be planted with spacing of 2m x 2m and number of trees have to be

- increased accordingly. The plant species can be selected that will give better carbon sequestration and plantation shall be started from first year onwards.
- (xvi) The activities and the action plan proposed by the project proponent to address the socio-economic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit.
- (xvii) As proposed, at least Rs.9.6 Lakhs shall be earmarked for conservation plan and shall be implemented in coordination with State Forest & Wildlife Department/Local Village Administration.
- (xviii) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

#### B. General Conditions:

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
- (iii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iv) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (v) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (vi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for

- environment management/ pollution control measures shall not be diverted for any other purpose.
- (vii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (viii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (ix) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (xi) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- (xii) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- 17. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
- submission of false/fabricated and data 18. Concealing factual data or mentioned above may conditions comply with anv of the to failure under the and attract action this clearance withdrawal of result provisions of Environment (Protection) Act, 1986.
- 19. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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- **20.** The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.
- **21.** This issues with the approval of the competent authority.

Dr. R. B. Lal)

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(डा. आए. बी. लाल)
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Min.of Environment, Forest and Climate Change
भारत सारकार, नई दिल्ली
Govt. of India, New Delhi

### Copy to: -

- 1. Deputy Director General of Forests (C), Integrated Regional Office, Lucknow, Kendriya Bhawan, 5<sup>th</sup> Floor, Sector-H, Aliganj, Lucknow-226020
- 2. The Principal Secretary, Environment, Forest and Climate Change Department, Government of Uttar Pradesh, Aranya Vikas Bhawan, 21/475, Indira Nagar Lucknow
- 3. Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi 32
- 4. The Member Secretary, Uttar Pradesh Pollution Control Board, Building.No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226 010
- 5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
- 6. The District Collector, District Mathura, Uttar Pradesh
- 7. Guard File/Monitoring File/Website/Record File/Parivesh portal

(Dr. R. B. Lal)

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