## Format for Submission of Application for Categorization of material as By-Product

	. Item	Details
Α.	General Information:	
•	Alama and Adduces of 11-74	T
i.	Name and Address of Unit	
ii.	Contact details	
iii	Industrial Sector (Pharma/Pesticide/Textile	
	etc.)	
iv.	Details on Environmental Clearance (attach	
	Copy)	
v.	Details on Consent/Authorization (attach	· · · · · · · · · · · · · · · · · · ·
••	Copy)	
	copy	
vi.	Name of Material processed as his are dust	
VI.	Name of Material proposed as by-product	
vii.	Details of the manufacturing process	
	wherein claimed material is generated	
	along with list of raw materials, chemical	
	reactions and process description (attach	
	process flow chart indicating waste streams	
	alongwith Mass balance, and Pollution	
	Control Systems)	
	cond of bystemsy	
B	Details on Proposal for declaration of M	aterial as By-product
Д.	becaus on troposation declaration of P	atenat as by-product.
1	General Assessment and Characteristic	s of By-product
••		sol by product
i	_Is the material listed under Schedule _	If yes, provide details on Category-and-
	I/III/IV/VI of HOWM Rules, 2016	Schedule of HOWM Rules, 2016
		Schedule of Howm Rules, 2010
ii.	To the proposed metadal dedenation	
11.	Is the proposed material declared as	
	wastes' or 'byproduct' in Environmental	
	Clearance granted to the unit (Please	
	specify)	
iii.	Annual quantity of the material proposed	
1.4.2	as by-product (generation in MT/annum)	지금 한 소설에 가지 않는 것이 가지 않는 것이 없다.
	, prese (generation at rity and any	지수는 그는 것 같아요. 이렇는 것 같아요. 것 같아요. 것
iv.	Detailed Composition and Characteristics of	
14.		
	the material (as per Schedule-II of HOWM	
	Rules, 2016)	

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v.	Current management practices for the proposed by-product material.	
vi.	MSDS (as per MSIHC Rules) of proposed by-product material	
	Whether any pre-treatment / processing is required prior to end-usage of the proposed by-product material (i.e. production stage); if yes please provide process details.	
ix. 	Details of the process wherein the material (as by-product) is proposed for end-usage (Outline manufacturing process, chemical reactions) (attach flowchart along with mass balance)	
vii.	Is Pre-feasibility study has been carried out for use at production stage of the proposed material ('By-product'). If yes, attach copy.	
iii.	Is Environmental Impact and Risk Assessment Studies have been carried out for (i) Production stage and (ii) end-usage of the proposed material (as 'By-product'). If yes, attach copy.	
	Note: The end usage of product manufactured form the proposed material (as by-product) shall not be permitted for utilization in production of pharma, fertilizer and food products, unless the same is approved by the concerned department such as DoA, DoF, FSSAI, CDSCO, etc.	
X.	BIS standards or any other quality specifications for the Intended end use of the material produced using the proposed byproduct.	
xi.	Provide justification for categorization of proposed material as By-product	

i.	Details of the material which the proposed by-product is expected to substitute and its end use process.	
ii.	Composition and Characteristics of the product presently in use (prior to supplementing with by-product) Please provide standard/desired concentration levels.	
	Also, provide concentration level of constituents that are present in the	
	proposed by-product material (as per Schedule II of HOWM Rules, 2016 for each of the constituent examined for proposed by-product material)	
ii.	Acceptability of the proposed by-product's composition compared to product presently in use especially, in terms of products that are being produced in the process where the proposed by product is proposed to be used.	
v.	Impact on the existing process where the by-product material is proposed to be used both at Production stage and end-use stage;	•
	a. Generation and type of Hazardous Waste	
	b. Generation and characteristics of the Wastewater	
	c. Generation and characteristics of the Emissions	
	d. Release of contaminants in Work Zone	
	Details on the changes required in the existing air/water consents and authorization, where the proposed by- product is intended to be used.	
	Impact on the adequacy of pollution control measures presently in place especially in the context of their need up gradation in compliance, where the proposed by-product is intended to be used.	

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vii.	Cost of Upgrading of presently employed Pollution Control Devices	
iii.	Expected impacts on the environment and human health, where the proposed by- product is intended to be used (in line with EIA studies)	
ix.	Analysis of Risks involved in the end use of the material/product derived by using proposed by-product and identification of the additional requirements in the management plans	and the second
x.	The overall impact of using the proposed by-product in the process where a fresh product is currently in use in the country in terms of the quality of the products that are being produced and the wastes which get generated	
xi.	The overall environment and human health impact of using the proposed by-product in the process where a fresh product (which would be Partially or fully substituted by the proposed by-product) is currently in use and the risks involved in doing so.	
xii.	Present status of the demand and supply of the product (which would be partially or fully substituted by the proposed by- product, as the case may be) presently in use.	
xiii.	Impact on the market of the product as a result of the substitution by the proposed by-product.	
xiv.	Scope for the substitution of the product currently in use especially in case the product itself is not the primary product of the industry where it gets produced.	
xv.	Justification on acceptability of findings	