

**ADDITIONAL INFORMATION REQUIRED FOR MODERNIZATION-CUM-EXPANSION CASES**  
**(To be furnished through appraising financial institution /scheduled bank)**

- (1) Date of commencement of sugar manufacturing by the sugar factory.
- (2) Copy of IEM issued by Ministry of Commerce and Industry.
- (3) Credit record of the sugar factory with financial institutions /banks.
- (4) Present status of implementation of project. Expected date of commissioning of project.
- (5) Availability of sugarcane during last four years and future availability (in chronological order indicating years):

S. No.	Particulars	Before implementation				After implementation			
		1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year				
1.	Area under sugarcane (in hectare)								
2.	Average yield (Ton/hectare)								
3.	Sugarcane Production (in LMT)								
4.	Cane crushed (LMT)								

- (6) Process/efficiency parameters before & after implementation of project at sugar unit for four years as follows: (in chronological order indicating the years)

S. No.	Particulars	Before implementation				After implementation			
		1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year
1.	Crushing Capacity (TCD/22 hours)								
2.	Capacity utilization %								
3.	Duration of the season								
4.	Total sugarcane crushed/ Expected crushing (tonnes)								
5.	Preparatory Index								

6.	Primary Extraction								
7.	Reduced Mill Extraction (Deerr)								
8.	Pol % Bagasse								
9.	Bagasse% cane								
10.	Clarification Efficiency								
11.	Lime consumption% cane								
12.	Sulphur consumption& cane								
13.	Pol % Press Cake								
14.	Press Cake % cane								
15.	Final Molasses Purity								
16.	Final Molasses % Cane								
17.	Total Sugar losses % cane								
18.	Recovery of Sugar % cane								
19.	Reduced Boiling House Recovery (Deerr)								
20.	Reduced Boiling House Recovery (Rao)								
21.	Power Consumption /TCH								
22.	Steam consumption % cane								

- (7) List of plant & machinery for modernization cum expansion project indicating the configuration and cost of each item as per format at Annexure-I. It may also be indicated whether the cost of plant and machinery includes VAT or not.
- (8) Financial benefits of the project.
- (9) Details of security for SDF loan. If first charge pari passu is not offered, then reasons for the same may be indicated.
- (10) Financial Ratios based on latest balance sheet as follows:

S.N.	Particulars	As on (year)
1.	Average DSCR of the factory	
2.	Average DSCR of the Company/Society as a whole	
3.	IRR for the project	
4.	FACR of the factory	
5.	FACR of the Company/Society as a whole	

(11) Financial Results of last four years (in chronological order indicating the years):

Particulars	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year
Net profit / loss after tax (Rs. in Lakh) (Society as a whole)				

(12) Technical Benefits:-

S. No.	Parameters	Existing		Target (After Implementation) (mentioning year)
		Last to last year (Actual)	Last Year (Actual)	
1.	Cane Crushed (lakh tonne)			
2.	Sugar Production (lakh quintals)			
3.	Total Sugar Losses (%)			
4.	Reduced Mill Extraction (Deerr)			
5.	Reduced Boiling House Extraction (Rao)			
6.	Sugar plant power consumption/TCH			
7.	Steam consumption % cane			
8.	Grade wise sugar production			

(13) Projected benefit of the project:

S. No.	Particulars	Last to last year (Actual)	Last year (Actual)	Projected (Mentioning Year)
1.	Optimum capacity utilization %			
2.	No. of crushing days			
3.	Sugarcane crushed (LMT)			
4.	Net Sales (Rs. In lakh)			
5.	Cash Accruals (Rs. in lakh)			



- (14) Assumptions taken in the project appraisal for profitability estimates for next four years and onwards (in chronological order indicating the years):

S. No.	Particulars	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year (onwards)
1.	No. of crushing days				
2.	Cane crushed (LMT)				
3.	Production of sugar (lakh quintals)				
4.	Average selling price (Rs. Sugar /quintal) Molasses/ton Bagasse/ton Press cake/ton				
5.	Cane price including purchase tax and cess (Rs./tonne)				

- (15) Whether sugar undertaking has any other sugar factory? If yes, details thereof may be furnished.

- (16) Salient features of the project.

- (17) Net profit /loss projected for next four years (in chronological order indicating years):

Net profit/loss after tax (Rs. in lakh) (Society as a whole)	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year (onwards)

- (18) Working results for sugar unit for last four years (in chronological order indicating years):

S. No.	Items (Rs. in Lakh)	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year
1.	Net Sales				
2.	Gross profit / loss (before interest and depreciation)				
3.	Tax				
4.	Net Profit/loss after tax				
5.	Cash Accruals				

- (19) List of all loans taken by sugar factory from other agencies & nature of security furnished for loans.
- (20) A certificate from appraising financial institution /scheduled bank to the effect that all dues (whether outstanding or otherwise) to Government or any other lending agency have been taken into account while working out the financial viability.
- (21) A certificate from the appraising financial institution to the effect that no refinancing is involved/
- (22) A copy of NOC (Consent to Establish) from State Pollution Control Board for the modernization cum expansion project.
- (23) A copy of the Environment Impact Assessment (EIA) clearance.
- (24) Plant code number & short name of sugar factory allotted by Directorate of Sugar in this Ministry.
- (25) The number of loans for modernization /rehabilitation previously availed by sugar factory from Sugar Development Fund and number of loans, of this, which has not yet been fully repaid with interest.
- (26) Whether any second hand plant, equipment or machinery is proposed to be used?
- (27) Detailed break-up of estimated cost earmarked for 'Building & Civil Works' in the project cost.
- (28) Detailed break-up of estimated cost earmarked for 'Plant & Machinery' in the project cost.
- (29) Detailed break-up of estimated cost earmarked for 'Miscellaneous Fixed Assets', if any, in project cost.
- (30) Net worth of company/society during last three years (in chronological order indicating years).
- (31) Undertaking regarding no outstanding SDF/LSPEF dues against the sugar factory and Company/ Society as a whole.
- (32) Whether the utilization certificate in the prescribed Form GFR 19-B for all the SDF loans previously availed by the sugar factory have been submitted to this Department? If the utilization certificate of any of the SDF loan is yet to be submitted, the same may be submitted immediately.

## ANNEXURE-I

S.No.	Broad details of equipment at unit operation	Existing	Proposed Additions/modifications	Final configuration after additions/modifications	Cost of proposed additions/modifications
1.	Cane Handling: Type and capacity of unloading equipments				
2.	Cane Preparatory Devices: Configuration and power (mention about HT motors)				
3.	Milling : No. of mills, size, mention about lotus roller/couch roller, driving arrangement (gear boxes, coupling and electrical drive)				
4.	Imbibition water & Juice weighment arrangement and juice screening				
5.	Juice Heating: No. of juice heaters each on Raw, Sulphited and clear juice, type, heating surface of each in case of tubular/plate type , juice velocity per				

	pass at the enhanced capacity and heating media used				
6.	Milk of lime preparation: Capacity of Lime slaker and size/capacity of milk of lime screening arrangement				
7.	Sulphur di-oxide generation: type, capacity and distribution on juice and syrup sulphitation. Also mention Air compressors/blowers capacity.				
8.	Juice Sulphiter, Type and working volume				
9.	Filtration: No. of vacuum filters/decanter, size/capacity				
10.	Clarifier: Type and working volume				



11.	Evaporation: Configuration, type, heating surface of each and vapour bleeding system				
12.	Syrup Sulphiter, Type and working volume				
13.	Pan Boiling: No. of pans, type, their capacity and distribution on various massecuites				
14.	Capacity of seed / vacuum crystallizers				
15.	Crystallizers: Nos., type, capacity and distribution on various massecuites				
16.	Centrifugation: Nos., type, capacity and distribution on various massecuite.				
17.	Sugar Drying and grading: no. of hoppers and their size, arrangement for blowing hot or cold air, no. of graders and capacity.				



18.	Molasses weight scale: type and capacity				
19.	Steam Generation : No. of boilers, capacity in TPH, Steam Pressure and temperature				
20.	Power Generation: No. of TG sets, type and rating in MW				