

# BMG Economic Value Added (EVA) for 75 TPH Mill

Economic Value Calculations (EVA)																				
CPO price/tn (high Grade), USD	800.00	* Conservative est based on 2022 forecast																		
BMG Price DDP, USD	8.00																			
<b>Factory 90 TPH (Fruit Bunches) Extraction rate 18%</b>																				
Max Capacity, FFB tns/hr	75	75	75	75 tns/hr is a maximum capacity, but actual is less, so we take actual 60 tns/hr																
Actual Capacity, FFB tns/hr	60	60	60																	
Capacity, FFB tns/day	1,080	1,080	1,080																	
Extraction rate, %	18	18	18	We take conservative 18% as a median for Malaysia																
Oper hrs per day	18	18	18	Mills with this high capacity have 20 hrs operating time per day, but we take conservatively 18 hrs																
Working days/mth	25	25	25																	
Sludge to FFB, %	60	60	60	We take conservatively sludge 60%, while industry standard is 55% sludge to FFB																
<b>BMG Additional oil, %</b>	<b>3</b>	<b>4</b>	<b>5</b>																	
<b>Factory C (Fruit Bunches) Extraction 18%</b>																				
BMG Additional oil/day, tn Clarifier	5.8	7.8	9.7																	
BMG Additional oil/day, tn POME	1.75	1.75	1.75	30% oil loss reduction in POME, normally oil loss in POME is 0.54% to FFB, we took here 0.54% from real case Mill																
Total BMG additional oil/day	7.6	9.5	11.5																	
BMG Additional oil/yr, tn	2,274	2,858	3,441																	
BMG per day, kg	270	270	270					25 m3/h		33.3 g/l										30 conversion 3% solution into dry BMG (kg)
BMG per year, kg	80,919	80,919	80,919																	
<b>BMG Add Value, USD</b>	<b>1,819,584</b>	<b>2,286,144</b>	<b>2,752,704</b>	CPO price conservatively at USD 800 per ton																
BMG cost per year, USD	647,352	647,352	647,352																	
<b>EVA</b>	<b>1,172,232</b>	<b>1,638,792</b>	<b>#####</b>																	
CPO tn/day	194	194	194																	
CPO tn/mth	4,860	4,860	4,860																	
CPO tn/yr	58,320	58,320	58,320																	
<b>BMG kg per 1CPO tn</b>			<b>1.4</b>																	
<b>BMG kg per 1FFB tn</b>			<b>0.250</b>																	
<b>BMG price per 1FFB tn</b>			<b>2.00</b>																	