Employee Performance Assessment with Behaviorally Anchor Rating Scale (BARS) Approach: A Case Study

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Abstract:- Performance appraisal has an important role and function for a company, this will of course be related to decisions that will be taken by the company as a company strategy in the future. This also applies to the company PT. Pertamina (Persero) I Meulaboh which is a company engaged in oil distribution that markets Premium, Solar, and Kerosene products with a capacity of 8,001 KL (KiloLiter). The assessment is currently running at PT. Pertamina (Persero) I Meulaboh is an assessment based on criteria, but currently the assessment of these criteria does not have a standard standard so that employee assessments run subjectively, this creates problems for employees so that the current assessment is deemed less effective and not in line with company goals. a result, employees feel uncomfortable and As unmotivated at work. To overcome these problems, an employee performance appraisal was compiled based on the formulation of the Behaviorally Anchor Rating Scale (BARS) method, the formulation of the BARS method is expected to overcome problems in employee performance appraisal which were originally subjective to become more objective, where in the end the employees of PT. PT. Pertamina (Persero) I Meulaboh can work comfortably and have high work motivation.

Keywords:- Behaviorally Anchor Rating Scale (*BARS*), *Employee Performance Assessment*.

I. INTRODUCTION

Human resources have a very important role for a company, the activities carried out by companies to form quality human resources are work skills, work abilities, and work loyalty to the company or organization. One of the important activities of human resources is the performance appraisal of an employee or employee performance appraisal. Every company certainly wants and has employees whose performance productivity and performance are in accordance with the standards set by the company, then the performance appraisal can be said to be productive or effective if it includes two things, namely the existence of a set of standards and information. communication (feedback) (Mathis and Jackson 2006: 382).

The incident that has occurred so far is the company's distrust of employees, where the employee's performance is not too noticed by the company. Employee performance also receives less attention, especially in terms of salary, when in fact the company will provide incentives if employees have optimal performance and increase production without any pressure from the company. So that initially many employees resigned and left the company.

PT. Pertamina (Persero) I Meulaboh has employees whose current performance is still very less productive, such as starting from the emergence of employee complaints, decreasing employee motivation, to the high work intensity of employees. The focus is on knowing how productive an employee is and whether he or she will do the same or more effectively in the future, so that both the employee and the organization benefit.

To be able to review the problems that occur in employee performance, companies can increase their productivity towards employees to obtain maximum feedback to the company. The formulation of the Behaviorally Anchor Rating Scale (BARS) method is one way to be able to see whether or not employees are effective in the future by assessing or comparing one employee to another. The formulation of this method because it can be the right solution in assessing the behavior of employee performance, especially in the company PT. Pertamina (Persero) I Meulaboh.

The purpose of this study was to re-plan the layout of the salted fish production facility to minimize the mileage of workers and raw materials at SMES Stefen Aluy.

II. RESEARCH METHODS

This research was conducted at PT. Pertamina (Persero) I Meulaboh, having its address at Jalan Tomb of Heroes No. 2 Meulaboh, West Aceh, Indonesia. The current employee performance at PT. Pertamina (Persero) I Meulaboh is still not very productive. To increase employee performance productivity can be done by using the Behaviorally Anchor Rating Scale (BARS) Formulation method, where employees at PT. Pertamina (Persero) I Meulaboh became the object of this research. Figure 1 shows the stages carried out in the research, and is shown in the form of a research flow chart.

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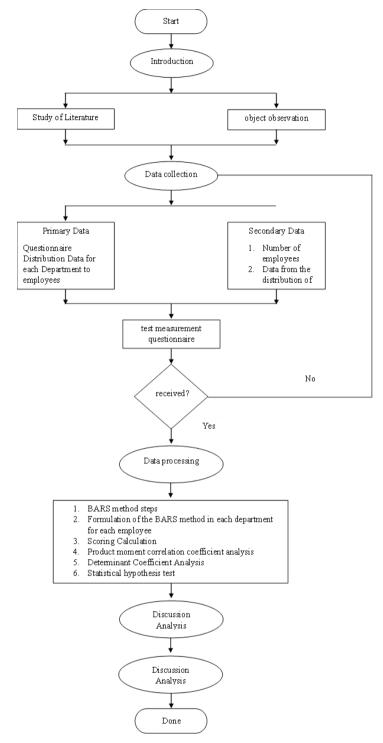


Fig 1. Research Flow Chart

III. RESULTS AND DISCUSSION

To facilitate this research, in evaluating employee performance, the Behaviorally Anchor Rating Scale (BARS) method is used to assess the dimensions of employee work behavior and can assess the performance appraisal criteria of each employee, which can be seen in the table for the BARS method formulation.

Table 1 of Formulation of Behaviorally Anchor Rating
Scale (Bars) Method

	Scale (I	Bars) Method		
Indicator	Rating	Anchor		
Discipline	5	On time consistently with 0% delay		
	4	Attendance rate above 95%		
		Present but sometimes like to		
	3	come late on condition that		
	-	you have to get permission		
		Absence rate above 10% and		
	2	arriving late		
		Often comes late and absent		
	1	records are not clear		
		Always do the assigned tasks		
	-	and complete the task on time		
	5	and the results according to		
		the leadership's instructions		
		Always do the assigned tasks		
		and complete assignments on		
	4	time even though sometimes		
D 1111		make mistakes		
Responsibility		Doing the given task even		
	3	though it is late and not		
		according to what was ordered		
		Doing assignments but often		
	2	finishing late and		
		encountering many mistakes		
	1	Often do not do the assigned		
	1	tasks		
		Able to communicate and		
		coordinate with various		
	5	parties, as well as respect the		
		opinions and input of others		
		consistently		
		Knowing other people's duties		
	4	related to theirs and willing to		
	4	consider suggestions from		
		others		
		Knowing the outline of other		
		people's duties related to their		
Teamwork	3	duties and sometimes having		
- cull to Olk		to make sure first to adjust		
		their income		
		Reluctant to accept joint		
	2	decisions if they conflict with		
	2	his opinion and do not know		
		for sure the duties of others		
		related to him		
		Completely unable to		
	1	coordinate and communicate		
	1	with various parties and		
		unable to respect the opinions		
		of others		
	5	Act decisively and impartially		
		and set an example		
Tanadamitin	4	Act decisively and impartially		
Leardership		and set an example		
	3	take sides but stay within		
		reasonable limits		
	2	Sometimes easily influenced		

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	1	Unable to act decisively and impartially
	5	Able to formulate alternative solutions that are relevant and applicable to solve problems
Problem	4	Creating temporary solutions to problems that occur
solving and Decision Taking Skills	3	Able to make decisions without considering reactions from subordinates
	2	Prioritize personal interests when making decisions
	1	Refuse to make decisions when needed

Always obey the rules and work procedures and follow the instructions given by the bossSometimes not complying with work rules and procedures and following instructions given by superiors but still within reasonable limitsObedience33Not obeying the rules and work procedures and following instructions given by superiors but still within reasonable limits2Not obeying the rules and work procedures and following instructions given by superiors but still within reasonable limits2Sometimes violates work rules and procedures as well as instructions from superiors given by superiors4Often violates work rules and procedures as well as instructions given by superiors4Sometimes does not report his work to his superiors based on the actual situation4Sometimes does not report his work to superiors based on the actual situation4Sometimes the work results reported to their superiors are better than the actual situation3Sometimes the work results reported to their superiors are better than the actual situation4Doing tasks with extraordinary effort by accepting all the consequences5Make complex analyzes or plans Motivation4Doing the task as expected 25Make complex relationships between problems	Indicator	Rating	Anchor			
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	3	Able to see basic relationships	
	5	between problems	
	2	Able to use problem	
	1	Can't decipher the problem at all	
	5	Set a mature goal	
	4	Improve work performance	
	2	Meet the standards set by	
Achievment	3	management	
Orientation	2	Want to work well	
		Just focus on working without	
	1	thinking about the target you	
		want to achieve	
	5	Doing new things at the	
		organizational level that causes	
		the company to have better	
		performance	
	4	Doing new things at the	
		departmental level so as to	
Inovatif		improve departmental	
movatn		performance	
		Doing new things at the division	
	3	level so as to improve division	
		performance	
	2	Doing new things to improve	
	2	work performance	
	1	Not doing anything new	

A. Critical Incident

In making BARS is to identify critical incidents, by looking for various references. The factors that affect performance (Mahmudi, 2007) consist of 3 groups of performance which are divided into the performance of each group, namely individual performance, team performance and organizational performance. In evaluating the performance of employees at PT. Pertamina (Persero) I Meulaboh uses the formulation of the Behaviorally Anchor Rating Scale (BARS) method which consists of 2 variables, namely Organization Performance and Employee Performance Productivity.

B. Performance Dimension

Find the performance dimensions for each dimension. This step was carried out using the Stratifid Random Sampling method which involved 9 departments of all workers at PT. Pertamina (Persero) I Meulaboh. The results of the Stratifid Random Sampling method formulate the total number of 50 populations (behaviors) into 34 populations.

C. Allocating Events

The regrouping of events into the formulation of the Behaviorally Anchor Rating Scale (BARS) method which consists of 2 variables, namely Organizational Variables and Employee Performance Productivity Variables. Organizational Variable (X) consists of 6 questionnaires, namely, Teamwork/Cooperation, Problem-Solving and Decision-Making/Spatial Solving Skills, Problematic and Decision-Making Skills, Analytical Thinking/Analytical Thinking, Achievement Orientation/Achievement Oriented, Innovative. Employee Performance Productivity Variable (Y) consists of 6 lists of questions, namely, Discipline, Responsibility, Leadership/Leadership, Compliance, Honesty,

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Self-Motivation/Self-Motivation, which are distributed to each department to employees of PT. Pertamina (Persero) I Meulaboh.

D. Occurrence Scale

Giving a scale (value) involving 34 respondents who are grouped into 2 variables, namely Organizational Variables and Employee Performance Productivity Variables. The respondent's data is then added up to find out the percentage value of the total answers from the 34 respondents involved, which has a percentage smaller than the average percentage, so it is considered invalid. The results for each variable can be seen in Table 2.

Table 2. Number of	Valid And Invalid	Incidents	For Each
	Indicator		

		Incident			
Indicator	Ques tion	Number of Incident	Amount	Valid	Invalid
	P1	34	0,573	Valid	-
Teamwork/	P2	34	0,94	Valid	-
Cooperation	P3	34	0,573	Valid	-
	P4	34	0,836	Valid	-
	P5	34	0,94	Valid	-
Problem	P1	34	0,945	Valid	-
Solving And	P2	34	0,841	Valid	-
Decision Taking Skills	P3	34	0,786	Valid	-
/ Spatial	P4	34	0,922	Valid	-
Solving	P5	34	0,899	Valid	-
	P1	34	0,689	Valid	-
A a la +i a a l	P2	34	0,822	Valid	-
Analytical Thinking	P3	34	0,538	Valid	-
Thinking	P4	34	0,689	Valid	-
	P5	34	0,783	Valid	-
	P1	34	0,81	Valid	-
A .1.	P2	34	0,851	Valid	-
Achievment Orientation	P3	34	0,78	Valid	-
Onemation	P4	34	0,603	Valid	-
	P5	34	0,81	Valid	-
	P1	34	0,685	Valid	-
	P2	34	0,864	Valid	-
Inovatif	P3	34	0,606	Valid	-
	P4	34	0,603	Valid	-
	P5	34	0,864	Valid	-
	P1	34	0,983	Valid	-
	P2	34	0,951	Valid	-
Discipline	P3	34	0,983	Valid	-
Discipline	P4	34	0,685	Valid	-
	P5	34	0,819	Valid	-
Responsibility	P1	34	0,892	Valid	-

P2	34	0,563	Valid	-
P3	34	0,677	Valid	-
P4	34	0,787	Valid	-
P5	34	0,828	Valid	-

		Incident			
Indicator	Ques tion	Number of Incident	Amount	Valid	Invalid
	P1	34	0,942	Valid	-
	P2	34	0,917	Valid	-
Leardership	P3	34	0,709	Valid	-
	P4	34	0,935	Valid	-
	P5	34	0,924	Valid	-
	P1	34	0,939	Valid	-
	P2	34	0,652	Valid	-
Obedience	P3	34	0,884	Valid	-
	P4	34	0,939	Valid	-
	P5	34	0,875	Valid	-
	P1	34	0,848	Valid	-
	P2	34	0,759	Valid	-
Honesty	P3	34	0,848	Valid	-
	P4	34	0,727	Valid	-
	P5	34	0,818	Valid	-
	P1	34	0,703	Valid	-
G 16	P2	34	0,716	Valid	-
Self	P3	34	0,71	Valid	-
Motivation	P4	34	0,69	Valid	-
	P5	34	0,788	Valid	-

E. Developing the End Device

in making the Behaviorally Anchor Rating Scale (BARS) instrument based on the Formulation of the BARS Method by placing it in good, medium, and bad groups. The formulation of the Behaviorally Anchor Rating Scale (BARS) method for each bar of the scale describes the position of the value from 1 to 5 with events as anchors (questions) for good, moderate, and bad criteria. An example of an instrument for formulating the Behaviorally Anchor Rating Scale (BARS) method can be seen in Figure 1.

F. Analysis of Product Moment Correlation Coefficient

The correlation coefficient shows a close relationship between the Independent Variable (X) of the Organization and the Bound Variable (Y) of Employee Performance Productivity.

Table 3.	Calculation (Of Product Moment	Correlation
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No	X	Y	\mathbf{X}^2	\mathbf{Y}^2	XY
1	96	108	9216	11664	10368
2	68	92	4624	8464	6256
3	87	115	7569	13225	10005
4	78	96	6084	9216	7488
5	77	90	5929	8100	6930

6	92	108	8464	11664	9936
7	85	102	7225	10404	8670
8	71	87	5041	7569	6177
9	103	96	10609	9216	9888
10	82	83	6724	6889	6806
11	86	82	7396	6724	7052
12	86	113	7396	12769	9718
13	74	79	5476	6241	5846
14	68	95	4624	9025	6460
15	70	93	4900	8649	6510
16	72	92	5184	8464	6624
17	67	86	4489	7396	5762
18	83	89	6889	7921	7387
19	78	90	6084	8100	7020
20	80	93	6400	8649	7440
21	101	130	10201	16900	13130
22	100	134	10000	17956	13400
23	86	122	7396	14884	10492
24	97	141	9409	19881	13677
25	104	127	10816	16129	13208
26	102	145	10404	21025	14790
27	105	146	11025	21316	15330
28	100	147	10000	21609	14700
29	108	128	11664	16384	13824
30	104	138	10816	19044	14352
31	103	150	10609	22500	15450
32	94	147	8836	21609	13818
33	94	124	8836	15376	11656
34	106	141	11236	19881	14946
Total/Σ	3007	3809	271571	444843	345116

The meaning of table 3 above is to explain the results of the total score for the Organizational Variable (X) and Employee Performance Productivity Variable (Y) from respondent 1 to respondent 34. After knowing the total value from table 3 above, the correlation coefficient value (rxy) is calculated . is as follows:

$$rxy = \frac{(N.\Sigma xy) - (\Sigma x.\Sigma y)}{\sqrt{[(N.\Sigma x^2) - (\Sigma x)^2]} [(N.\Sigma y^2) - (\Sigma y)^2]}}$$
(1)
$$rxy = \frac{(34)(345116) - (3007)(3809)}{\sqrt{[(34)(271571) - (3007)^2] [(34)(444843) - (3809)^2]}}$$

$$\operatorname{rxy} = \frac{11733944 - 11453663}{343388} = \frac{280281}{343388} = 0,81 \tag{3}$$

This means that the relationship between Organizational Variables and Employee Performance Productivity Variables is 0.81 which is included in the Very Strong category according to the Product Moment Correlation Coefficient Interpretation table.

G. Determinant Coefficient Analysis

The value of the determinant coefficient is used to determine the effect of the Independent Variable with the Bound Variable, it can be seen as follows: ISSN No:-2456-2165

Determinant coefficient = $(0,81)2 \times 100\% = 66,61\%$ (4)

This means that Organizational Variables have a large effect on Employee Performance Productivity Variables, namely 66.61% while the remaining 100% - 66.61% = 33.37%.

H. T Test (Partial Test)

Used to determine the effect of each factor in Organizational Variables with Employee Performance Productivity Variables. Based on the results of data processing on each factor are as follows:

Ha = There is an influence

Ho = No effect

Df = n - k

$$= 34 - 11 = 23$$

$$\Gamma \operatorname{Count} = \frac{r\sqrt{n-2}}{\sqrt{1-r^2}}$$
(4)

$$= \frac{0.9077\sqrt{34-2}}{\sqrt{1-(0.9077)^2}} = 12,2334$$
 (5)

(6)

T Table = $(\alpha, n) = (0.05, 23) = 1,713$

 Table 4. Table Of T Test Results (Partial Test)

Factor	T Count	T Tabl e	α	Informatio n
Teamwork/ Cooperation	12,233 4	1,713	0,0 5	Significant
Problem Solving And Decision	12,028 5	1,713	0,0 5	Significant
Taking Skills				
Analitical Thinking	9,5782	1,713	0,0 5	Significant
Achievment Orientation	1,2227	1,713	0,0 5	Not significant
Innovative	1,0866	1,713	0,0 5	Not significant
Discipline	5,8207	1,713	0,0 5	Significant
Responsibilit y	7,5838	1,713	0,0 5	Significant
Leardership	6,3114	1,713	0,0 5	Significant
Obedience	4,5933	1,713	0,0 5	Significant
Honesty	6,4468	1,713	0,0 5	Significant
Self Motivation	5,8300	1,713	0,0 5	Significant

I. F test (simultaneous test)

Used to determine the effect of Organizational Variables on Employee Performance Productivity Variables. Based on the results of data processing obtained the following results: Ho = no effect on work productivity Hi = affect on work productivity

$$\frac{\sum (\Sigma x1)^2 + (\Sigma x2)^2 + (\Sigma x3)^2 + \dots (\Sigma x25)^2}{n} - \frac{(\Sigma x)}{n-k}$$

$$S_t^2 = k - 1$$
(7)

$$\frac{\sum (137)^2 + (96)^2 + (137)^2 + \dots (133)^2}{34} - \frac{(3007)}{34 - 5}}{5 - 1}$$

$$S_1^2 = = 269 (8)$$

$$\frac{\sum (\Sigma x1)^2 + (\Sigma x2)^2 + (\Sigma x3)^2 + \dots (\Sigma x25)^2}{n} - \frac{(\Sigma x)}{n-k}}{k(n-1)}$$

$$S_2^2 = (9)$$

$$\frac{\sum (137)^2 + (96)^2 + (137)^2 + \dots (133)^2}{34} - \frac{(3007)}{34 - 5}}{5(34 - 1)}$$

$$S_2^2 = = =65,3 (10)$$

F Count
$$=\frac{S_1^2}{S_2^2} = \frac{269}{65,3} = 4,12$$
 (11)

Df1 (N1) =
$$k - 1$$
 (12)
= $11 - 1 = 10$ (13)

Df2 (N2) =
$$n - k$$

= $34 - 11 = 23$

F Table = 0,05= 2,27

Based on these results, it is known that the F Count value at a significant level of 0.05 is greater than F Table, with an F value of 4.12 > F. The table with a value of 2.27 states that the influence of Organizational Variables on Employee Performance Productivity Variables on Hypothesis Testing Results at F count is 4.12.

IV. CONCLUSION

Based on the results of the product moment correlation coefficient, the magnitude of the influence of Organizational Variables on Employee Performance Productivity Variables at PT. Pertamina (Persero) I Meulaboh obtained a result of 0.81 which is classified in the Very Strong category according to the interpretation table of the product moment correlation coefficient. The results of the test with the determinant coefficient showed that the Organizational Variable had a large effect on the Employee Performance Productivity Variable of

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66.61% while the remaining 100% - 66.61% = 33.37%. And the results of the Hypothesis Testing on the T-Test and F-Test, then for the T-Test at a significant level of 0.05 for Teamwork Factor of 12.2234, Problem Solving And Decision Making Skills of 12.0285, Analytical Thinking of 9.5782, Discipline 5,8207, Responsibility 7,5838, Leadership 6,3114, Compliance 4,5933, Honesty 6,4468, and Self-Motivation 5,8300. The results of T arithmetic > T table are 12.2234 > 1.713 then Ho is rejected and Ha is accepted, which states that each factor in Organizational Variables has an influence on Employee Performance Productivity Variables. As for the Achievement Orientation Factor of 1.0866, and 1.0866 Innovative, which states that the Achievement and Innovative Orientation Factor on Organizational Variables has no effect on Employee Performance Productivity Variables, so Ha is rejected and Ho is accepted And for the results of the F test at a significant level of 0.05, the F value is greater than the F table, then the calculated F value is 4.12 > F table with a value of 2.27 stating that the influence of Organizational Variables on Employee Performance Productivity Variables on the results of Hypothesis Testing on F Count is 4.12.

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