

##C716462 : MAJOR INDUSTRIAL ENGINEERING

KEY WORD: SLUDGE TREATMENT, WATER TREATMENT PLANT

PHARANEE DEECHAROENKUL: DEVELOPMENT OF APPROPRIATE PROCEDURE FOR SELECTION OF SLUDGE TREATMENT METHOD AT THE BANGKHEN WATER TREATMENT PLANT. THESIS ADVISOR: PROF. AMPIKA KRIRIT, MR. WATTANA YUKPAN, 209 pp. ISBN 974-635-019-6

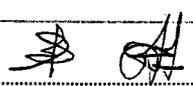
This thesis is presented on "The Development of Appropriate Procedure for Selection of Sludge Treatment Method At The Bangkhen Water Treatment Plant" and aims at development of methods of selection of appropriate technology for "Sludge Treatment" based upon engineering economic value.

The analysis is based on data taken from The Bangkhen Water Treatment Plant and engineering data of the company which is agent supplier of sludge Treatment Machine. In order to set choice for economic analysis, we conclude that the centripress method is the most suitable in economic field (i.e. the specification net present value per unit area is (-111,785,957 Bath/rai), followed by filterpress (-95,508,871 Bath/rai), sand drying bed is (-2,879,040 Bath/rai) and lagoon is (-925,020 Bath/rai) respectively.

On analysis, from Hierachy Process for the selection under the general resources which effects the consideration of selection of sludge treatment method whether should be estimated by both monetary value and value that cannot be counted in money. Therein, there are 3 possible alternatives for selection for Sludge Treatment Method as follows By sand drying bed, filterpress and centripress. Comparing with current lagoon methods, we found that the consistency ratio is acceptable.

From the above, we considered that the first choice would be centripress method (approximately 0.343 points), followed by filterpress, lagoon and sand drying bed (approx. 0.269, 0.211 and 0.177 points) respectively.

ภาควิชา..... วิศวกรรมอุตสาหกรรม
สาขาวิชา..... วิศวกรรมอุตสาหกรรม
ปีการศึกษา 2539

ลายมือชื่อนิสิต..... 
ลายมือชื่ออาจารย์ที่ปรึกษา..... 
ลายมือชื่ออาจารย์ที่ปรึกษาร่วม..... 