Sustainable Wellbeing Quality of Buddhist Meditation Centre Management During Coronavirus Outbreak (COVID-19) in Thailand Using the Quality Function Deployment (QFD), and KANO Analysis

Sharma Khemraj^{1,} Dr. PhramahaChakrapolAcharashubho Thepa²,

Asso.Prof. Dr. Hsinkuang Chi¹, Prof. Dr. WannYih Wu¹, Prof. Dr. Sasmita Samanta³ ¹Department of Business Administration, Management Science, Nanhua University. Taiwan. ²Department of Religion and Philosophy, Mahamakut Buddhist University, Salaya, Thailand. ³KIIT Deemed to be University Bhubaneswar, Odisha, India.

Abstract

The study is urgently ordered sustainable wellbeing to satisfy and develop quality adaptation for current situation along the outbreak of COVIT-19, then the service are cared and used to all practitioner satisfaction. It is critical for the Buddhist Meditation Center (BMC) in this area to develop a better perception of their practitioners' genuine requirements. The applying of techniques analysis major of the quality function deployment (QFD) that used qualitative method for empirical data collection from 270 final samples meditation practitioners, three BMC, and include 5 meditation masters with the measuring of AHP and Kano analysis. The outcome was a set of significant weights and enhancement initiatives that BMC administrators could use to evaluate their present service measuring and make reclamation as required to secure service quality. Investigate the correlate matrix between BMPRs versus TOPSs and the step 5 measure e.g., the matrix of T8 = 22.49% is spray disinfectants in every area, the second T9 = 12.97% is strictly measured to prevent entry-exit. The ranking as the most important and indicators with top priority R8 = 15.20% is provided seats for BMPs spacing 1-2 meters between individuals.

Keywords: COVID-19, Buddhist Meditation Centre (BMC), Quality Function Deployment (QFD), AHP, Kano, Service Satisfaction.

INTRODUCTION

Buddhist Meditation Center in Thailand (BMCT) towards new normal on Coronavirus disease (COVID-19) Period Department of Religion (PDR) (2538) mentions the administration of archaeological sites in Buddhist monasteries for development relates to Buddhism organizations and Buddhism activities. The most significant organization is Buddhist Monks Association (BMA). Religion organization has the best possibility of developing strategies for responding to changing external demand (Guillory, 2000). The Buddhist canonical in Vinaya PitakaAngutaraNikaya mentioned "a person who has the mind towards good conduct should create a right environment where the six senses occur" (Horner, 2002).

Quality function deployment (QFD) was applied as a customer-driven tool for adopting total quality management (TQM) (Guinta&Praizler, 1993; Kaulio, 1998; Raynor, 1994). Zen approached Honda in 1978 to teach the world how to convert a machine into a human their signature urban vehicle (Nonaka, 1991). QFD is a concept proposed in Japan by Akao (1990) in 1966 as a design technique. It has been utilized as a tool for product development and quality improvement all over the world since then (Kathawala& Motwani, 1994; Zairi& Youssef, 1995; Schmidt, 1995). QFD practitioners can capture clients' wants and wishes by minding to the voice of the customer (VOC) (Hauser &Clausing, 1988). That will apply to the current study for developing BMC during the COVTD-19 outbreak through prove of services satisfaction measurement and analysis.

RESEARCH PURPOSE

1. Measuring the customer satisfaction of a Buddhist meditation center in Thailand

2. Measuring and diagnosing the quality of Buddhist meditation center in Thailand

3. Analysis and benchmarking satisfaction of Buddhist meditation center in Thailand

THEORETICAL AND METHODOLOGY

1. Customer satisfaction Theoretical

Customer satisfaction is important. In the hospitality sector, service quality is becoming increasingly important. Under the pandemic today we will think beyond high-quality service to practitioner who has been defined as the most

Journal of Positive School Psychology

technicians for gaining a healthy more than a competitive edge and economic success in situation and environment (Rao & Kelkar, 1997). According to Hoffman and Bateson (1997), in the service industry, quality of service can enhance customer satisfaction, market dominance, and creation. Several academics wealth have concentrated on service quality research as it becomes increasingly crucial in corporate practice (Parasuraman et al., 1985; Parasuraman et al., 1988; Barsky, 1992; Babakus&Boller, 1992) and theories of customer satisfaction developed by Oh and Parks (1997). Concerning Reuland et al. (1985) hospitality service quality is comprised of three elements: the material product offered by the host, personnel behavior and attitude, buildings and equipment are part of the service environment.

2. Quality Function Deployment(QFD)

QFD is made a better design and cheaper prices, less and later changes in design, shorter project

management time, reduced startup issues, improved organizational effectiveness, but higher customer satisfaction, and, most significantly, improved customer satisfaction happiness are all advantages of QFD applications (Franceschini & Rossetto, 1995; Kim et al., 1998; Ginting, Tarigan, & Panjaitan, 2020). The manufacturing industry was the first to formulate and maintain the concept of QFD for product development (Bernal et al., 2009; Ansari & Modarress, 1994). The entire QFD approach is built on a basic matrix architecture known as the "house of quality," it is used to connect customer needs, service design/management requirements goal design objectives and evaluating competitive products/services (Jeong& Oh, 1998; Govers, 1996; Crow, 2002; Nilsson, 1990). The house of the quality matrix (see Figure 1) is used in the QFD analysis to show the many links between customer and technical requirements (Hauser &Clausing, 1988).

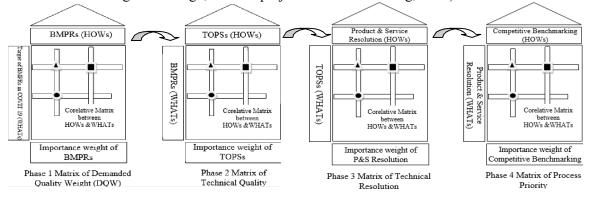


Figure 1 Four Phase Models and Matrixes

These matrices approached in the current study are used to translate higher-level "WHATs" into lower-level "HOWs," such as product requirements or technological qualities, which can meet those needs (Bouchereau& Rowlands, 2000). There are four phases (Figure 1) to the analytical process: 1) Product planning: a quality house, 2) Parts deployment: product design, 3) Process design, 4) process management (quality control charts) (Parasuraman, Berry, & Zeithaml, 1991) are used together (Chavan, Chaudhuri, Johnston, & Garner, 2020). In the study using this technique on BMCT, we'll start by describing the essential qualities of a BMCT (Figure 2).

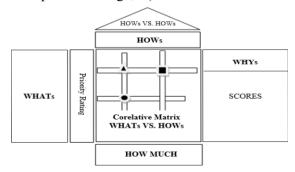


Figure 2. The Hose of Quality ModelKano's model

3. Kano analysis

Kano analysis is a model developed by Kano, Seraku, Takahashi, and Tsuji (1984), who created a comprehensive approach to generate products and service specifications. This model looks at how the occurrence or refusal to recognize quality improves customer satisfaction (Mir & Lee, 2020). The Kano model's classification of service quality attributes as follows: (1) The Onedimensional attributes the higher of the degree attribute, the higher the level of satisfaction. (2) availability Attractive characteristics, their provides customers with satisfaction, but their absence does not result in discontent. (3) Must-be has characteristics, their absence causes client unhappiness, but their presence does not always lead to satisfaction.

TheKano model is used in the QFD literature to assign weights to various customer qualities. Customers' wants were divided into three classes by Islam and Liu (1995), namely basic, onedimensional, and exciting features (Hwangbo et al., 2020).Robertshaw (1995) identified the type of Kano element using the dual importance grid and proposed that customer demands be reprioritized. The primary priority is to meet or exceed expectations. The second step is to deliver what has been requested. The final goal is to create a pleasing appearance. The equation is s =f(k, p), where s stands for customer satisfaction, *p*stands for product or service performance, and k stands for the Kano category adjustment parameter.

Therefore, as a result, we can derive $\Delta s/s > k(\Delta p/p)$, for attractive qualities, where Δs and Δp , s and p, respectively, indicate customer satisfaction and product performance, $\Delta s/s$ and $\Delta p/p$, respectively, reflect a tiny shift of s and p. Similarly, $\Delta s/s = \Delta p/p$; for one-dimensional characteristics, and $\Delta s/s < \Delta p/p$ for must-be attributes. The attachment between $\Delta s/s$ and $\Delta p/p$ is expected to be linear in this illustration. As a result, the preceding three relationship equations stated of a single equation, $\Delta s/s = \Delta p/p$. Employing a parameter k>1 forone-quantitative attributes, k=1; for must-be attributed as 0 < k < 1. It can be transformed into the following equation:

$$s = cp^k$$
 (1)

The instant c is used here. Set s0 and p0 to the present level of enhancing customer satisfaction and the performance of the product or service,

and s_1 and p_1 to the intended level of customer satisfaction and efficiency. It is also expected that the equation will be used(1) valid for both current and target status. As a result, $s_o = cp^k$ and $s_0 = cp^k$. For the adjusted ration ratio, we may obtain the following approximate transformation function:

$$IRadj = (IR0)^{1/k}$$

In different categories is the improvement ratio is IRadj, whereas the original improvement. IR0 is the original improvement ratio, andthe Kano parameter is k (Lapinskiene&Motuziene, 2021). In equation (2), the sole parameter available to QFD practitioners is k. Using Kano's model in the planning matrix (Singgih et al., 2013), QFD practitioners must know what customers want and how theirfatteningbear in mind to each

customer characteristic to attain desired level of customer satisfaction. The improvement ratio (IR) can be determined when the customer satisfaction target has been established.

(3)

Customers are then requested to arrange with the guidance of the QFD facilitator, they were able to categorize their needs using the Kano questionnaire, such as providing a quick introduction to the Kano model. One of the most important aspects of our proposed quantitative VOC adjustment technique is to alter the improvement ratio.

4. Methods

A number of techniques are used to assess the quality of BMCT services, including an initial survey to collect BMCT and practitioner requirements, as well as a description of BMCT technical measures. The QFD method was used to investigate the BMCT service in this study. The steps used in this investigation were as follows:

- Step 1 Diagnosis Buddhist meditation practitioner requirements (BMPRs) (WHATs)
- Step 2 Measure the important weight of BMPRs (WHATs) identifying the priority rating

of each BMPRs using AHP framework.

- Step 3 Develop technical of product and service action (TOPS) elements and define TSAs (HOWs) management to reveal BMPRs.
- Step 4 Investigate the correlate matrix between TOPSs and BMPRs.
- Step 5 Measure the important weight between of TOPSs and BMPRs.
- Step 6 Using the central relation matrix and priority rating of each, ranking technical measures to determine the important weight how each technical measure will contribute to the attainment of the overall BMPRs.

This study is previously stated incorporates an adaption of the QFD approach to be relevant rather than a facility, to a region unit of observation or organizational analytical (Tapke, 1997). The following modifications were made to modify the methodology in this regarded. The 4 dimensions of QFD approached as followed.

5.Buddhist meditation practitioner requirements(BMPR)

The elements of BMPR have been under the current situation of specific pandemic Covid-19 and have belonged to the infrastructure and service reflect various features of BMCT. In particular adjusting QFD for a diverse setting (Pellicciari&Tinti, 1987). BMPR has a general consideration for the convenience of the location relation to the BMPR experienced. in Accordingly, the demand of BMPs with the representative of the four components to urgent the "Strategic Targets" of the QFD project BMCT service quality especially in the pandemic of COVIT-19 under the camping "THAI STOP COVID-19" deferred standards for cleanliness and safety (2020). The existing services and considerations are based on the potential products and services that represent the voice of BMPs. It's probably time to conclude the interview when a customer repeats the same suggestion over and over (Prahalad & Hamel, 1990). This study applies and develops the services and products see table 1.

Codes	Requirement Elements of BMPs on the pandemic of COVIT- 19 period (Need)	Staff Behaviors	Hygienic Accommodations	Services Environment
R1	Staffs passed training and had been knowledge prevention of COVID-19 infection.	V		
R2	Staffs healthy without symptoms of illness, coughing and sneezing.			
R3	Staffs without risks factors for infection individuals checked.			
R4	Wearing mask, body cleaning and clean solutions available for any staffs.			
R5	Staffs at the center should be screened with a body temperature test above 37.5 degrees Celsius or have not a fever, cough, sneezing or at risk.			
R6	Have good ventilation system.			
R 7	Dining service each should be served separately or provided with a serving spoon or personal tools every time.			V
	Provide seats for BMPs spacing 1-2 meters between individuals.			V
R9	Cleaning with disinfectants is performed frequently used or frequently touched areas, i.e., door handles, doorknobs, handrails, stairs, pavilion floors, cushions, tables, chairs, etc.			

R10	In kitchen, dining room, and dining table are cleaned with a $$ cleaning solution, and disinfectants ever time after having used or serviced.								
R11	Have adequate napkins or hand tissues available kitchens or dining hall.	ailable at the cafeteria, $$							
R12	12 Provide separate seating areas for those with a symptom, i.e., $$ fever, cough, sneezing or at risk or coming from a vulnerable areaatadistanceof4metersfromthegeneralpractitionerseat.								
to a se organiza backgro	hnical service component of QFD refers rvice offer for a specific resource or ation (Mao at el., 2019). Expertise und information are (1) BMC Abbot-1	years, (2) BMC Abbot-2 age 55 gender is male BMC experience 35 years, (3) staff layman 3 people consist of 1 male age 60 experience 35 years and 2 female age 55 and 50 experience							
0	gender is male and BMC experience 38 ble 2 Interactions between Quality of Service	over 15 years each. ces (QS) and Technical Service Actions (TSAs)							

Quality of Services	Cod	eTechnical Service Actions "HOWs" during Coronavirus disease (COVID- 19) Pandemic
Material Product	T1	Registration when check in and check out, body temperature measurement provides medical equipment, hand sanitizer, and face mask.
	T2	Dinning with their own utensils and sitting separately.
	Т3	Food and beverage sanitary standards. Fresh high-quality food and drinks and fit for all tastes Temperatures of food and drinks proper hot and cold.
	T4	Canteen and kitchen designed safe and clean suitable for dining and use. There are sufficient personnel or staff to take care offood, drinking water, and all beverages.
Behavior & AttitudeT5 of Employees		BMMs and staffs has good behavior, behaves himself as a good ,e.g. activities, education, training, and willing to service.
	T6	Provide training meditation courses suitable and introducing to COVIT-19 health and care for BMMs, staff and BMPs.
Service Environment	Τ7	Keep BMPs spaced apart locates in a safe source more than two meters.
	T8	Spray disinfectants in every area to take care of the accommodation, bathroom, toilets and other facilities for hygienic.
	Т9	Strictly measures to prevent entry-exit for both BMMs, staffs and BMPs are put in place from the entrance-exit to BMC.
	T10	Health care, first AID in case of emergency patients, they can be brought to a hospital immediately.

Basically, the QFD technique involves phases that identify and rate functional relationships between distinct technical service pieces. This is the "roof" of the home in the quality diagram (Figure 1), and it is frequently referred to as "roof." Because these functional interactions may correspond with specific characteristics of BMCT, particularly during the COVIT-19 pandemic, this is a 'correlation matrix.' However, this study did not take into account functional interactions. The study used standard criteria for outstanding provincial's BMC followed the National Buddhism Office. That is the improvement techniques for service quality and presents despite for the BMA project, an example of a Demanded Quality Deployment Chart (DQDC). This is merely a personalized example, not a comprehensive list of consumer demands.

6. Competitive benchmarking

In a conventional QFD analysis, competitive BMCs of the target facility or institution are considered on the right-hand side of the quality house. Individual facilities or organizations are usually involved. The adjustment QFD to a province context of a Buddhist meditation center in Nakornratchasrima Thailand, it is critical to think about three BMC to be competitive. The study illustrated three other important BMC would be situated in the same province. After the descriptive statistics from the QFD questionnaire have been obtained, it is averaged in a matrix known as the "Customer requests matrix" or "Preplan". The Demanded Quality Weight (DQW) is a product of this matrix, keeping track of whether BMPs expectations and competitive benchmark involving.

7. QFD questionnaire

In the major of the questionnaire, that will be two critical QFD questions. Free topics are included at the start and finish, such as sales or technical research, or customer satisfaction surveys. In other words, only two questions are required for the QFD framework (Homkhiew, Ratanawilai, &Pochana, 2012; Cristiano & Liker, 2001) and these two questions typically make up the entirety of the questionnaire. (1) The first question is about determining the customer's buying proclivity. The DQs that are included in the questionnaire have a higher level of information in the DQDC. The following statements are related with the responses on a 5point Likert scale: 1 = not at all important 2 = alittle important 3 = rather important 4 = quite important 5 = extremely important. (2) The second question concerns the assessment of the interviewees' assessment of the ability of products or services (ours and competitors) involved in the benchmarking (Ahmadzadeh, Aboumasoudi, Shahin, &Teimouri, 2020) have to satisfy the DQ in question. The following statements are related to the responses, which are ranked on a 5 point Likert scale, indicates that something e.g. 1 = awful 2 = insufficient 3 = adequate 4 = good 5 = excellent.

RESULTS AND DISCUSSION

The following section details the data collecting and analysis operations for each of the QFD technique processing step by step.

1. AHP target requirement of Buddhist meditator practitioners (BMPs) Matrix1

In step 1, a Buddhist Meditation Center (BMC) in the Nakornratchasrima province was interviewed. The goal was to find out what they needed in order to stay in a BMC from 20 gembas (Xie et al., 2003). These elements indicated characteristics that BMP took into account while evaluating the BMCs' quality and appeal.

In step 2 measure the targets BMPs requirements are depending on current products and services to find out about alternative products and services. The examination finds the contributing AHP technical measures (Liu et al., 2020). The result presents the target requirement of BMPs priority i.e., convenient (V1) = 10.77%, staff behaviors (V2) = 28.04%, hygienic accommodations (V3)= 51.09%, services environment (V4) = 10.10%. The racking priority of BMPs requirement found accommodations, hygienic (2)staff (1)behaviors, convenient, services (3) (4) environment, as follow table 3.

A	AHP TARGET REQUIREMENT OF BMPs MATRIX 1												
			STRA	TEGIC	TARC	GETS						of	
			V1	V2	V3	V4	V1	V2	V3	V4		ent	
STRATEGIC TARGETS DEPLOYMENT		Racking	Convenient	Staff Behaviors	Hygienic Accommodations	ы v		nalized ssment		1	Absolute Weight	Target Requirement BMPs Priority	
1	Convenient	3	1.00	0.11	0.11	5.00	0.07	0.01	0.03	0.33	0.43	10.77%	
2	Staff Behaviors	2	5.00	1.00	3.00	0.14	0.33	0.09	0.70	0.01	1.12	28.04%	
3	Hygienic Accommodations	1	9.00	7.00	1.00	9.00	0.59	0.63	0.23	0.59	2.04	51.09%	
4	Services Environment	4	0.33	3.00	0.20	1.00	0.02	0.27	0.05	0.07	0.40	10.10%	

	Tał	le 3 AHP target i	requirement of	Buddhist i	meditator	practitioners ((BMPs)	Matrix	l
--	-----	-------------------	----------------	------------	-----------	-----------------	--------	--------	---

© 2021 JPPW. All rights reserved

Important weight	15.33	11.11	4.31	15.14	1.00	1.00	1.00	1.00	4.00	100.00%
Note: The target requirement	ion	BM	Ps Met	trix 2 S	tep					

Note: The target requirements are identification as 1 = the row is equally important as the column, 3 = slightly more important, 5 = more important, 7 = much more important, 9 = very much more important, 0.33 = slightly less important, 0.20, less important, 0.14 = much less important, and 0.11 = very much less important.

When implementing the proposed HOQ to a specific circumstance, the proper "WHATS" must be determined. However, in this first phase, interviewers ask open-ended questions during Gemba (2021) inspections and personal interview, which are generally conducted through verbal engagement. Step 3 Identify technical Service Actions (TSAs)(HOWs)

The second step entails identifying the technical service elements that are required to meet the requirements of the 20 BMPs. This step is required to perform and complete both of BMCs abbots and three staff consist of one Buddhist meditation master (BMM) and two assistance Buddhist meditation masters (ABMMs) there working on accommodation and food & beverage. The study was interviewed and discussed with respect to corresponding TSAs during COVID 19. (Table 2).

2.Develop management to reveal requirement of

Table 4 Technical Service Actions DEVELOP MANAGEMENT TO REVEAL REQUIREMENT OF BMPs MATRIX 2

REQUIREMENT	REQUIR		OF	BMPRs	Absolute	Requirement of	Racking
OF BMPRs	TECHNI				Weight	BMPRs Priority	
DEPLOYMENT	V1	V2	V3	V4			
R1		•	Δ		3.03	5.35%	8
R2		•			2.52	4.45%	11
R3		•		Δ	2.32	4.62%	10
R4	\wedge	•			2.63	4.64%	9
R5		•			4.06	7.15%	7
R6	•			•	1.88	5.31%	13
R7	•	•		Δ	5.13	9.00%	5
R8	Δ		•		5.85	10.50%	4
R9	•		•	•	6.48	11.71/0	2
R10			•	Δ	5.02	0.0596	6
R11					1.86	0. 27%	14
R12			\wedge	•	2.26	2 98%	12
R13	•		•	•	7.32	12 000/	1
R14		\wedge	•	•	6.11	10.76%	3
Relative Weight	10.77%	28.04%	51.09%	10.10%			
Racking	3	2	1	4			

Note: Correlation indication and value in column stand for $\bullet=9$ strong, $\blacksquare=3$ medium, $\triangle=1$ weak, blank $\emptyset=0$ 3.House of quality requirements for BMPs chosen for the BMPs survey, as previously stated, to implement the QFD method in a

Step 4 Investigate the co-relate matrix between BMPRs versus TOPSs. And step 5 Measure the important weight between of BMPRs versus TOPSs.

The 20 BMPs required factors were used to develop a questionnaire. The BMCT will get the questionnaire. A variety of BMC was ■ 9 strong, = 3 medium, \triangle =1 weak, blank Ø =0 chosen for the BMPs survey, as previously stated, to implement the QFD method in a regional setting there were 300 surveys distributed in sample size. Then, in the last sampling was totally only 270 contributors of them being returned (a response rate of 90%). Table 3 displays the demographics of the final sample. The majority of those who responded see in table 3.

Table 5 Demographics	s of Samples BMP (n=270)
CharacteristicsItems	FrequencyPercentage

Gender	Male	113	41.85%
	Female	157	58.15%
Age	Below 20 year	31	11.48%
	21-40 year	92	34.07%
	41-60 year	85	31.48%
	Over 61	62	22.96%
Education	Below High school	22	8.15%
	Undergraduate	173	64.07%
	Postgraduate	69	25.56%
	Doctoral	6	2.22%
Income yearly	Below #150,000	52	19.26%
	в150,001 - в350,000	0114	42.22%
	в350,001 - в550,000	066	24.44%
	Over \$550,001	38	14.07%

Table 5 displays the results in the columns namely "the importance of product attributes" and "service performance." The HOQ matrix is made up of several sub-matrixes. It is a method for making strategic judgments. That are

systematic especially in the period of the COVIT-19 pandemic. Kano's methodology designed to take quaternary can help QFD benchmark that BMP satisfaction and define strategic targets.

Table 6 HOQ Requiremen	ts for BMPs versus	TOPSs Matrix 3
-------------------------------	--------------------	-----------------------

			HOQ RE	QUIF	REMEN	NT FO	R BMP	s VER	SUS T	OPSs N	MART	IX 3			
/eight	of BMPRs aents		nt of ployment		QUIRE VICE (TEC	TECHNICAL OF PRODUCT &						
Absolute Weight	Relative of B Requirements Weight	Racking	Requirement of BMPRs Deployment	T1	T2	Т3	T4	Τ5	T6	T7	T8	T9	T10		
3.03	5.35%	8	R1					•	•				•		
2.52	4.45%	11	R2	Δ				•	Δ			•			
2.62	4.62%	10	R3	•				•				•			
2.63	4.64%	9	R4	•				•				•			
4.06	7.15%	7	R5					•	Δ			•	Δ		
1.88	3.31%	13	R6		Δ										
5.13	9.03%	5	R7		Δ		•				•				
5.85	10.30%	4	R8	•	•	•	•			•		•	Δ		
6.48	11.41%	2	R9	Δ				Δ			•				
5.02	8.85%	6	R10		•		Δ				•				
1.86	3.27%	14	R11		•		Δ								
2.26	3.98%	12	R12							•					
7.32	12.89%	1	R13								•				

© 2021 JPPW. All rights reserved

6.11 10.76% 3 R14								•		
Important Weight	38	32	12	20	49	17	21	48	45	14
Absolute Weight	2.62	2.62	1.20	1.86	2.74	0.87	1.63	4.86	2.80	0.78
Relative Importance of TOPSs Weight	12.10%	10.45%	5.54%	8.61%	12.68%	4.04%	7.53%	22.49%	12.97%	3.58%
Racking	4	5	8	6	3	9	7	1	2	10

Note: Correlation indication and value in column stand for $\bullet=9$ strong, $\blacksquare=3$ medium, $\triangle=1$ weak, blank $\emptyset=0$

Table 6 contains information on competitive analysis. TOPSs are scored based on the experts' judgments of its competitive expectation implications. Following thorough data collection are discovered numerous key client characteristics and their corresponding priorities.

4. Kano analysis and benchmarking

Step6Using the central relation

matrix and priority rating of each, contains a list of technical measures in order of importance and u sing a central correlation matrix. It determines the important weights that each technical assessment responds and priority rating of each and overall BMPRs(table 6). In addition, three BMCT comparisons 1-3 were picked for a competitive examination. BMPs are asked to score their satisfaction with their own BMCT as well as three competitors on a 1-5 scale (Yourdon, 2010) (table 7).

Table 7 Kano analysis in the VOC with customer perception and Kano Category

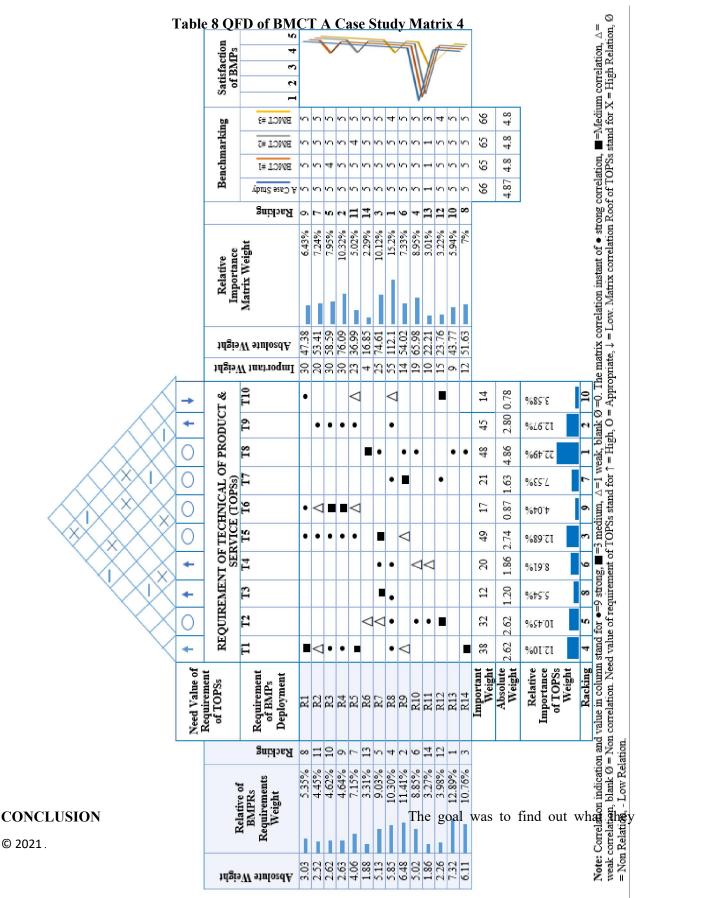
The VOC with customer perception and Kano category											
Codes	BMPRs Attribute	Raw important B and expectation B	A case study s BMCT 32	BMCT comparison #1	¢‡		Kano analysis category*				
R1	Staffs passed training and had been knowledge prevention of COVID-19 infection.	5	5	5	5	5	0				
R2	Staffs healthy without symptoms of illness, coughing and sneezing.	5	5	5	5	5	0				
R3	Staffs without risks factors for infection individuals checked.	5	5	4	5	5	A				
R4	Wearing mask, body cleaning and clean solutions available for any staffs.	5	5	5	5	5	0				
R5	Staffs at the center should be screened with a body temperature test above 37.5 degrees Celsius or have not a fever, cough, sneezing or at risk.	5	5	5	4	5	A				
R6	Have good ventilation system.	4	5	5	5	5	0				
R7	Dining service each should be served separately or provided with a serving spoon or personal tools every time.	4	5	5	5	4	0				
R8	Provide seats for BMPs spacing 1-2 meters	5	5	5	5	5	A				

between individuals.

R9	Cleaning with disinfectants is performed frequently used or frequently touched areas, i.e., door handles, doorknobs, handrails, stairs, pavilion floors, cushions, tables, chairs, etc.	4	5	5	5	5	0
R10	In kitchen, dining room, and dining table are cleaned with a cleaning solution, and disinfectants ever time after having used or serviced.	4	5	5	5	5	0
R11	Have adequate napkins or hand tissues available at the cafeteria, kitchens or dinning hall.	4	1	1	1	3	М
R12	Provide separate seating areas for those with a symptom, i.e., fever, cough, sneezing or at risk or coming from a vulnerable area at a distance of 4 meters from the general practitioner seat.	5	5	5	5	4	A
R13	Toilets and public areas in all centers must be clean and have liquid soap for hand washing.	4	5	5	5	5	0
R14	There must be available a sanitary cleaner that can kill viruses around the doorknob, handle, shut-off, latch, faucet, hose handle, toilet seat.	5	5	5	5	5	0
	* O= one-dimensional, A= attractive, M= must	be		-			

Likert scale: 1 = not at all important 2 = a little important 3 = rather important 4 = quite important 5 = extremely important

The Kano analysis found nine of BMPRs Attribute stand for O i.e., staffs passed training and had been knowledge prevention of COVID-19 infection, staffs healthy without symptoms of illness, coughing and sneezing, etc. Four of BMPRs Attribute have been A and only one M stand for must be in the significant of "have adequate napkins or hand tissues available at the cafeteria, kitchens, or dining hall" that mention by respondents. At last summary in Table 8 presents whole display parts of QFD of BMCT combined e.g. Matrix of DQW, Matrix of TQ, Matrix of TR, and Matrix of PP.



© 2021.

needed in order to stay in a BMC. These elements indicated characteristics that BMP took into account while evaluating the BMC's quality and appeal. The Characteristics Were elicited in the context of the Nakornratchasrima province as a BMC whole, rather than specific BMCs.

Measure the targets **BMPs** requirements are premised on current products and services to find out more about alternative products and services. The examination contributing AHP technical found the result presents the target requirement of BMPs priority i.e., convenient 10.77%, staff behaviors 28.04%, hygienic accommodations 51.09%, services environment 10.10%. The racking priority of **BMPs** requirement found (1)hygienic staff accommodations, (2) behaviors, (3) convenient, (4) services environment. When implementing the proposed HOQ to a real-world scenario, the proper "WHATS" must be determined.

In order to complete this step, a total of two BMCs abbots and three staffs. The study was interviewed and discussed with respect to corresponding TSAs during COVID 19. The requirement of BMPs Priority found the first needed R13 12.89%, second R9 11.41 %, and the third R14 10.76%. The most important value by the relative importance of TOPSs weight, e.g., the matrix of T8 = 22.49%, the second T9 = 12.97%, and the third important T5 = 12.68%.

Using the central relationship matrix and priority rating of each fund the ranking as the most important R8 = 15.20%, second R4 =10.32%, third R7 = 10.12%, fourth R10 = 8.95%, fifth R3 = 7.95%, sixth R9 = 7.33%, seventh R2 = 7.24%, eighth R14 = 7.00%, ninth R1 = 6.43%, tenth R13 = 5.94%, eleventh R5 = 5.02%, twelfth R12 = 3.22%, thirteenth R11 = 3.01%, and the important R6 = 2.29%. Thus last the measurements showed the most service satisfaction significant in theprovide seats for BMPs spacing 1-2 meters between individuals and the last ishave good ventilation system.

REFERENCES

- 1. Ahmadzadeh, Ali, et al.,Developing a QFD Model for Prioritizing the CSFs of ERP Based on the Enablers of Organizational Agility. Benchmarking: An International Journal. Emerald Discover Journals.Vol. 28, No. 4, (2021), pp. 1164-1186.
- 2. Akao, Y., &Ohfuji, T., Recent Aspects of Quality Function Deployment in Service Industries in Japan. Proceedings of the international conference on quality control,

Rio de Janerio, (1989), pp. 17-26.

- Bernal Luis Bernal, Dornberger Utz, Suvelza Alfredo, & Byrnes Trevor, Quality Function Deployment (QFD) for services. International SEPT Program (Germany: Leipzig, 2009).
- 4. Parasuraman, Ananthanarayanan, Leonard Berry, and Valerie Zeithaml, Refinement and Reassessment of the SERVQUAL Scale. Journal of Retailing, Vol. 67, No. 4(1991), pp. 420-450.
- BouchereauVivianna, Hefin Rowlands, Quality Function Deployment: the Unused Tool.
 Engineering Management Journal, Vol. 10, No. 1 (2000), pp. 45-52.
- 6. Cham, P., & Hamel, G., (1990). In Warnaby, G., & Medway, D. Rethinking the Place Product from the Perspective of the Service-Dominant Logic of Marketing. In Rethinking Place Branding:Springer Cram Press, 2015), pp. 33-50.
- Chan, L., & Wu, M, Quality function deployment: A literature review. European journal of operational research, Vol. 143, No. 3 (2002), pp. 463-497.
- Chavan, G., Chaudhuri, R., Johnston, W., & Garner, B. (2020). Purchasing performance of Engineering Procurement and Construction Companies Using a Fuzzy Quality Function Deployment Approach. Journal of Business & Industrial Marketing, (2020). Cohen, L. Quality Function Deployment: How to Make QFD work for You (Prentice Hall, 1995).
- 9. Cristiano, J., White, C., & Liker, J. Application of Multi Attribute Decision Analysis to Quality Function Deployment for Target Setting. IEEE Transactions on Systems, Man, and Cybernetics, Part C (Applications and Reviews), Vol. 31 No. 3 (2001), pp.366-382.
- 10. Franceschini, F, Advanced Quality Function Deployment (Boca Raton: Lucie Press, 2002).
- 11. Gemba, K., & Kodama, F. Diversification Dynamics of the Japanese Industry. Research

Policy, Vol. 30 No. 8 (2001), pp. 1165-1184.

- Ginting, R., Tarigan, U., &Panjaitan, N. Integration of Quality Function Deployment and Value Engineering: A Case Study of Designing a Texon Cutting Tool. Songklanakarin J. Sci. Technol, Vol. 42, No. 4 (2020), pp. 771-779.
- Govers, C. What and How About Quality Function Deployment (QFD). International Journal of Prod Econ, Vol. 46–47, No. 996 (1996), pp. 575-585.
- Guillory, W. (2000). In Karakas F., Spirituality and performance in organizations: A literature review. Journal of business ethics, Vol. 94, No. 1, 2010), pp. 89-106.
- 15. Hauser, J., &Clausing, D,The House of Quality. Harvard Bus Rev. Vol. 66, No. 3, (1988).
- Homkhiew, C., Ratanawilai, T., &Pochana, K. Application of a quality function deployment technique to design and develop furniture products. Songklanakarin Journal of Science and Technology, Vol. 34, No.6 (2012), pp.

Technology, Vol. 34, No.6 (2012), pp. 663,668.

- Horner, I. The Pali Text Society, Vinaya Pitakam, Volumes I - III, edited by Hermann Oldenberg, 1879 -1883, The Sri Lanka Buddha Jayanti Tripitaka Series Pali text of Vinaya-Pitaka, Volumes I-IV. The Book of the Discipline, Volumes I - VI, translated by I.B. Horner, SBE: Sacred Books of the East, Vol. 13, 17 and 20: Vinaya Texts, translated (2002), pp. 1881-1885.
- Hwangbo, Y., Yang, Y., Kim, M., & Kim, Y., The Effectiveness of Kano-QFD Approach to Enhance Competitiveness of Technology-Based SMEs through Transfer Intention Model Sustainability, Vol. 12, No. 19 (2020), pp. 78-85.
- Kawakita, J., In Nawar, E., Backar, S., &Dardiry, M., (2018). Case Study on Fuzzy Blitz Quality Function Deployment. The Academic Research Community publication, Vol. 2, No.

3 (1981), pp.256-264.

20. Khurana, A., Integrating Product Design

Through Quality Function Deployment: Implementation and Performance, Division of Research School of BusinessAdministration

(USA: The University of Michigan, 1992).

- Lapinskienė, V., & Motuzienė, V., Integrated Building Design Technology Based on Quality Function Deployment and Axiomatic Design Methods: A Case Study. Sustainable Cities and Society, Vol. 65, No. 10 (2021), pp. 26-31.
- 22. Liu, J., Kamarudin, K., Liu, Y., & Zou J., Developing Pandemic Prevention and by Control ANP-QFD Approach: A Case Study on Furniture Design Urban in China Communities. International Journal of Environ. Research Public Health 2021, Vol. 18, No. 5(2021), 26pp. 53.
- 23. Lockamy, A., & Khurana, A. (1995). In Rahman, K., Leman et al., Development of Energy Efficiency Estimation System (EEES) by Using Quality Function Deployment Approach. In AIP Conference Proceedings; 3 May 2021, AIP Publishing LLC (2021). p. 23-29.
- 24. Lu, M., &Kuei, C., Strategic Marketing Planning: A Quality Function Deployment Approach.
 International Journal of Quality & Reliability Management, Vol. 12, No. 6 (1995), pp. 85-96.
- 25. Mao, Q., Mao, N., Li, F., & Pena, M. Quality Function Deployment-Based Framework for Improving the Resilience of Critical Infrastructure Systems. International Journal of Critical Infrastructure Protection, Vol. 26 No. 100304 (2019), pp. 1-14.
- 26. Ministry of Public Health, Corporate and Activities Relief Measures to Prevent the Epidemic of COVID-19 Practice Manual for Category 1 Activities and Activities, White. Bangkok: Drug and Medical Supply Information Center. (2020).
- 27. Natarajan, R., Martz, R., &KurosakaK.,Applying QFD to Internal Service System Design.

Quality Progress, Vol. 32, No. 2 (1999), pp. 65-72.

- National Office of Buddhism. (2018). Registration of Dharma Practice Office: Nakhon Ratchasima. Buddhist Meditation Center.Available from: www.nma.onab.go.th/th/page/item/index/id/ 18. Accessed date Jan 5, 2021.
- 29. Nonaka, I., & Takeuchi, H., The Knowledge-Creating Company: How Japanese Companies Create the Dynamics of Innovation (United Kingdom: Oxford University Press, 1995), p. 21.
- Pellicciari, G., &Tinti G. (1987). In Maritan, D., Practical Manual of Quality Function Deployment(Switzerland: Springer International Publishing, 2015), p. 82.
- 31. Radha, K., The Zen Way to be an Effective Manager (Mercury Books 1997), p. 1.
- 32. Salahuddin, M., Lee, Q., & Young, A. Identifying Key Quality features for wearable technology embedded products using the Kano model. International Journal of Clothing Science and Technology. Vol. 33, No. 1 (2020), pp. 93-105.
 33. Singgih, M., Singgih, D., Trenggonowati, P.,
- St. Singgin, M., Singgin, D., Henggonowat, F., &Karningsih. Four Phases Quality Function Deployment (QFD) by Considering KANO Concept, Time and Manufacturing Cost the 2nd

International Conference of Engineering and Technology Development (ICETD) 2013, 27-

29August 2013 (Indonesia: Bandar Lampung 2013). p. 22-38.

- 34. Tan, K. C., & Shen, X. X., Integrating Kano's Model in the Planning Matrix of Quality Function Deployment. Total Quality Management, Vol. 11, No. 8 (2000), pp.1141-1151.
- 35. Tapke, J., Muller, A., Johnson, G., & Sieck, J. (1997). In House of Quality: Steps in Understanding House of Quality. In Lapinskienė, V., &Motuzienė, V. Integrated Building Design Technology Based on Quality Function Deployment and Axiomatic Design Methods: A Case Study. Sustainable Cities and
- Society, Vol. 65, No. 10 (2021), pp. 26-31.
 36. Yourdon, E. Just enough structured analysis Chapter. 13 state transition diagram. (2010).

© 2021 JPPW. All rights reserved

Available from:www. yourdon.com/strucanalysis/wiki/index.php?t itle=Chapter_13. Accessed date9 Jan2021.

- 37. Yunus, K., & Jaideep, M. Implementing Quality Function Deployment. A Systems Approach. The TQM Magazine, Vol. 6, No. 6 (1994), pp. 31-37.
- Zhang, X., et al., Identification of Product's Design Characteristics for Remanufacturing using failure modes feedback and quality function

deployment. Journal of Cleaner Production, Vol.

239, No. 117967(2019).