

A Bayesian Set Approach (BSM) for Segmentation of Retinal Fundus Images for Retinal Disorder Detection

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Abstract: Research in medical image processing has been aggregating significant contributions and findings aided by the advent of state of the art image acquisition systems and processing algorithms. One such field of interest is the processing of retinal fundus image for detection of a series of disorders related to eye as well as diabetes prone patients. Segmentation forms the backbone behind retinal image processing as the segmentation of blood vessels in the retinal image brings out key findings about the condition of the eye. A novel Bayesian set approach/model is proposed in this research article for segmentation of blood vessels and compared with learning based model for the accuracy as well as computation time. Experimental results justify the simplicity of the proposed model with a high degree of observed precision.

Keywords —*Bayesian Set Theory, Blood Vessels, Precision, Region of Convergence, Retinal Images, Segmentation*

I. INTRODUCTION

In recent times, medical image processing has been found to be an integral part of almost all hospital management systems for patient disorder diagnosis and treatment [1] [15]. It could be rightly justified that the processing of such medical images greatly depends on the image acquisition methods employed. Further, in most cases, in spite of utilization of state of the art image acquisition methods, effective processing methods and algorithms employed bring about the required objective. On the other hand, these techniques are quite challenging due presence of significant amount of constraints [4]. One such field of medical image processing is the processing of retinal fundus images [6] for detection of eye related disorders. One such serious disorder observed from the literature is the diabetic retinopathy [11] [13] which is found to be prevalent among individuals with age groups ranging from teens aged around early 20's to 60's. This needs to be carefully and systematically handled supported by early detection schemes which if undetected may result in partial or even in complete blindness in individuals. This forms the motivation behind this research work and a strong detection method which could provide occurrence of the syndrome quite early could greatly aid in treatment and subsequent eradication of the disorder. Retinal fundus images play a key role in which appropriate segmentation methods may help in achieving the target objective. Blood

vessels in the retina play a vital role as they convey useful information regarding the onset of the disorder. Other related disorders may include diabetic retinopathy (DR) and a typical difference between normal and abnormal eye image is illustrated in figure 1 shown below.

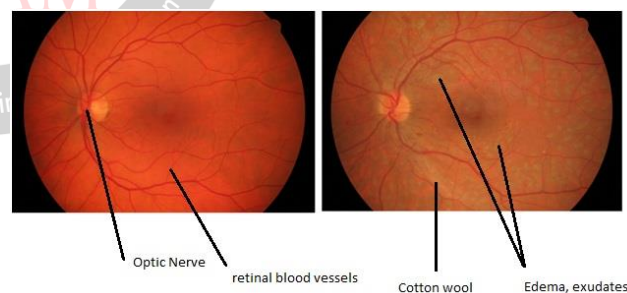


Figure 1 a. Normal retinal image b. Retinal image with Diabetic Retinopathy

As clearly illustrated in figure 1, it could be seen that images with DR are well characterized by features such as aneurysms, edema, cotton wool appearances etc. In order to detect these features a clear cut and precise segmentation algorithm is required which has been taken as the primary objective of this research article. The rest of this article is categorized into a systematic literature survey highlighting various research contributions related to segmentation, followed by the proposed Bayesian set model in section 3. Section 4 presents the experimental results followed by a brief conclusion.

II. LITERATURE SURVEY

Any image segmentation and classification methods involve key steps like preprocessing, image enhancement and image segmentation which may be done in spatial or frequency domains. Many relevant literature related to preprocessing highlight superior performances with utilization of filters like median filters [5], matched filters [10] [16], hybrid combinations of median and mean filters, Gaussian filters and Wiener filters [11] which help in reduction of speckle noise [12] which is characteristic of medical images. With respect to segmentation, a wide range of techniques are available in the literature [5]. A conventional line detection method has been proposed in the literature [1] addressing the segmentation of slightly color disoriented images like pale blood vessels. Further, the segmentation has been carried out in an automated manner. The input images have been taken from DRIVE database [4] and an accuracy of 94.47% has been recorded in the literature. Comparison has been done against supervised learning methods and reduced computation time has also been observed. Images from the same data set have been taken up for investigation in the literature using Ada Boost classifier algorithms [3] with a data set of 20 images with 94.73% accuracy. But the demerit observed in this method is the variable precision of accuracy due to limited amount of retinal images taken up for study. A conventional method available in the frequency domain is the use of wavelet transforms [6] which involve the decomposition of input image into its constituent 2^k sub bands with k depicting the number of decomposition levels. An added feature in wavelet transforms is that it supports denoising as well as processing in the high frequency sub bands where noise is more prevalent. Wavelet based research advances include a number of transforms like Contourlet transform and Ridgelet transforms [11] for retinal blood vessel segmentation. Fusion based methods [8] have also been investigated in the literature which could be ideal for application over retinal images for detection of eye related disorders. Spatial domain methods involve morphological operations such as the well-known region growing method found in the literature [7] more suitable for optic disc segmentation approaches. Preprocessing and post processing filters are applied over the proposed method for smoothening the segmented output obtained through adaptive histogram equalization and blood vessel subtraction. However, the model complexity increases with increasing number of samples.

On the other hand, cluster based approaches [17] have also been implemented over retinal images using radius based clustering algorithm (RACAL) [9] using a distance based mapping method. A significant number of false positives have been observed in the experimentation and is basically a unsupervised learning based clustering. Supervised methods have also been used for retinal blood vessel segmentation using multiple kernel learning methods [13]

which reduces the challenges encountered in manual segmentation approaches and is based on computation of Hessian matrix have been discussed elaborately in the literature. A drastic reduction in computation time is reduced due to the automated feature in this work. Decision based methods [14] invoking fuzzy c means method have been experimented on STARE database images and accuracy of up to 92% have been reported in the literature. From the survey of literature, it could be clearly seen that most of methods have focused towards automatic segmentation methods using cluster based approaches, line detection outlier based methods, supervised and unsupervised methods. Satisfactory levels of accuracy have been reported. On the contrary the complexity of the methods still remains to be a critical design challenge.

III. PROPOSED WORK

In this research work, the proposed work is based a simple structure of Bayesian set theory which drastically reduces the overall complexity of the segmentation method. The proposed algorithm is spatial domain based and involves concepts of regularization of distance parameter. The proposed model is progresses into three modules as pre-processing, vessel segmentation and post processing. In the pre-processing step closing operation and filtering operations are performed to remove the disc inference so that it retains the blood vessel images in the disc. It is easy to enhance the vessel information based on the variations in retinal images through the preprocessing module. The segmentation process used level set based model which includes Gaussian mixture and distance regularization terms to segment the vessels. This segmentation module reduces the energy function of the data set and in last post processing the length of the filter is defined to remove the unwanted data in the vessel due to noise and other factors.

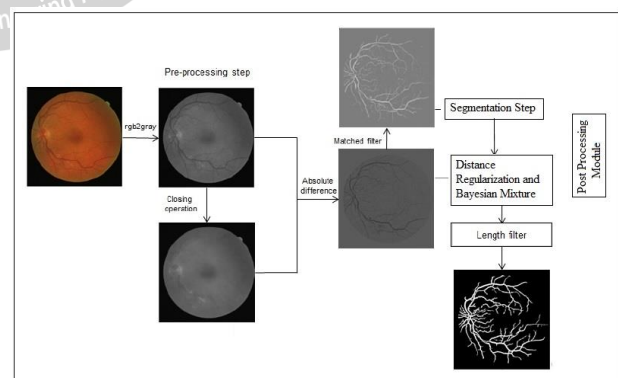


Figure 2 Illustration of proposed Bayesian set segmentation method

The mathematical model of the proposed work used Bayesian model along with level set segmentation as a hybrid process to improve the segmentation accuracy. Figure 2 gives an illustration of proposed model.

The mathematical model of preprocessing for improving the efficiency includes vessel information for the grey level

image and closed image. Based on the variation in intensity the Gaussian curve is defined as

$$f(x, y) = GI \left(1 - re^{-\frac{pd^2}{2\alpha^2}} \right) \quad (1)$$

Where pd is the perpendicular distance, GI is the grey level intensity, r is the reflectance ratio value for blood vessel neighborhood, α is the vessel intensity. The matched filter representation for the actual image is given as

$$MF(x, y) = \left(-e^{-\frac{x^2}{2\alpha^2}} \right) \text{for } |y| \ll \frac{l}{2} \quad (2)$$

where l is the length of the vessel in a fixed direction. The filter response is suppressed due to the noise and a set of kernel filter in addition to the level set method provides better vessel information as input to the segmentation section. The hybrid segmentation process used intensity of the vessel distribution and the region information is extracted using difference images. Also distance regularization terms avoids noises due to intensity and the components used to define the parameters uses pixel intensity values. The iteration for conditional expectation is simplified into

$$Q = E_{GI}(\ln P(X, Y|\Theta|Y, \Theta^t)) \quad (3)$$

The above equation represents all the possible labels for maximizing the parameters. While comparing the proposed model with supervised learning models the proposed model converges quickly for the given parameter training process. The Gaussian mixture term and its energy level is given as

$$E_F(\theta) = \int_0^\infty \log(P(Y|X, \Theta)) dx dy \quad (4)$$

where Θ is the constant coefficient which is used to calculate the negative likelihood segmentation probability. The final term is obtained as

$$E_F(\theta) = v \int_0^\infty \log(P(Y|X, \Theta)) dx dy \quad (5)$$

where v is the coefficient for level based segmentation process. The Dirac delta function is given as

$$\delta(\theta) = \frac{d}{d\theta} H(\theta) = \begin{cases} \frac{1}{2e} (1 + \cos \frac{\pi\theta}{\xi}) & \text{for } \theta \leq \xi \\ 0 & \text{for } \theta > \xi \end{cases} \quad (6)$$

The post processing module uses background values as misclassified vessel values and by investigating the results the level set method found the contours have more intensity as noise in homogeneity values. Using length filter the noises are eliminated and discards the connected graph pixels which are lesser than threshold values.

IV. RESULTS AND DISCUSSION

The proposed method was evaluated on database which includes dataset of 50 color images with 768×564

pixels in RGB channel, which were captured by a Canon CR5 camera and saved in JPEG-format. The test and training data set includes segmented images and performance of the set is compared with conventional model. In this the first set of 25 images is abnormal and second 25 images are normal. The performance is evaluated by the parameters such as true positive and false positive rate, efficiency and accuracy. The number of true negatives is obtained by measuring the values based on the image and the segmented area. Table 1 gives the performance comparison of the proposed model for normal images.

Table 1 Performance comparison of proposed model [Normal Images]

S.No	Method	True Positive	False Positive
1	ANN	0.8245	0.0242
2	Fuzzy C means	0.8606	0.0194
3	Proposed BSM	0.8962	0.0157

Table 2 gives comparison for abnormal images.

Table 2 Performance comparison of proposed model [Abnormal Images]

S.No	Method	True Positive	False Positive
1	ANN	0.6542	0.0523
2	Fuzzy C means	0.6844	0.03455
3	Proposed BSM	0.7642	0.0220

In order to provide hybrid level based terms in the proposed model the performance is compared with efficiency for the data set results obtained after the training process. In the ANN and fuzzy C based models, the learning process needs more data for training process and the experimentation takes more computation time when compared to the proposed model. Based on the training set results and data the performance particularly the efficiency of the proposed model and ANN model is defined. Figure 4 gives the detailed description of the proposed model results in terms of retinal image and segmented results and ground image for the normal sample. Figure 5 gives the same for the abnormal sample.

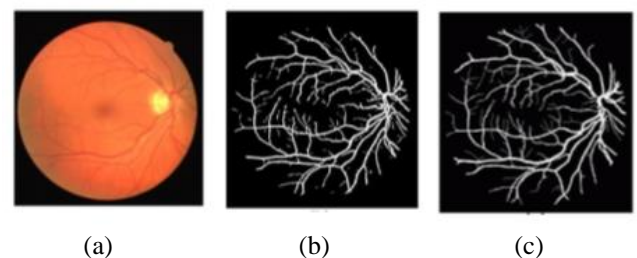


Figure 4 Normal Sample (a) Retinal Image (b) Proposed model Segmentation (c) Ground Image

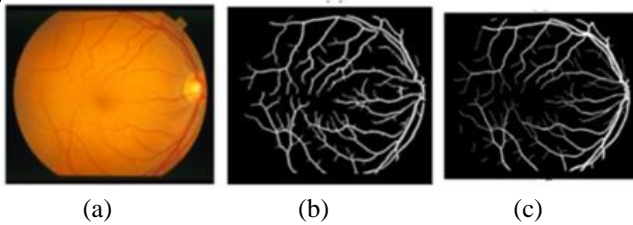


Figure 5 Abnormal Sample (a) Retinal Image (b) Proposed model Segmentation (c) Ground Image

The next analysis involves utilizing standard deviation for quantifying the amount of difference between vessel and non vessel segmentation. It could be seen from figure 6 that the proposed BSM provides a close degree of separation indicating the efficiency of the proposed methodology to segregate a vessel from non-vessel based on minute feature details.

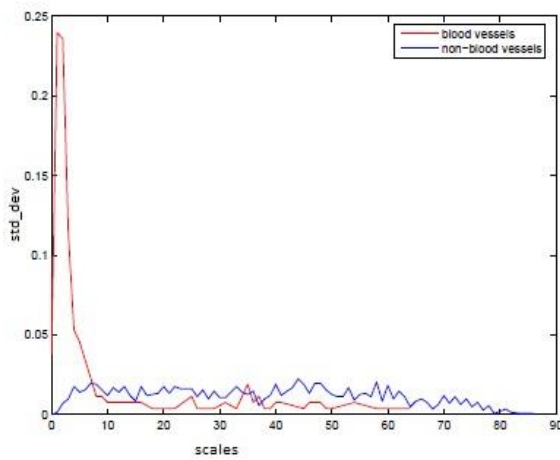


Figure 6 Analysis of variation between vessel and non-vessel segregation

From the segmented results the accuracy of the proposed model is using segmented results and also it defines the overall efficiency of the system. Table 3 gives the comparison of proposed model and ANN, Fuzzy C means model accuracy for normal and abnormal samples.

Table 3 Accuracy comparison

S.No	Model	Normal Sample	Abnormal Sample
1	ANN	0.9133	0.9024
2	Fuzzy C Means	0.9455	0.9199
3	Proposed BSM	0.9642	0.9542

The final analysis is based on computation time required for the proposed BSM compared over the supervised and decision based segmentation models. The efficiency and reduction in computation time has been tested against increasing number of images in the dataset varying from 10 to 100 and in each case the proposed BSM model outperforms the conventional learning based models justifying the simplicity of the proposed approach which at the same time exhibiting improvement in accuracy.

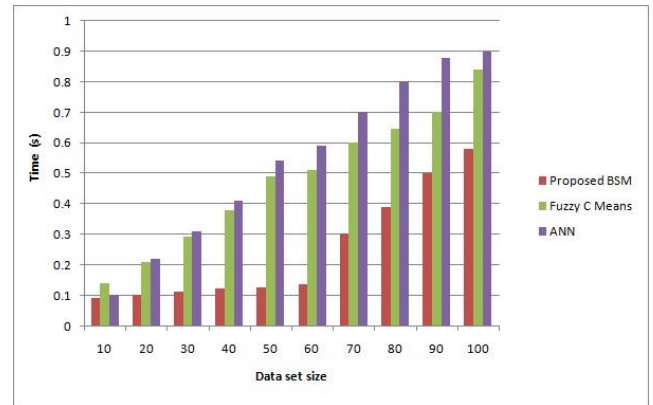


Figure 7 Analysis of computation time

V. CONCLUSION


The proposed hybrid retinal blood vessel segmentation model attains better accuracy in segmentation process as 96.4% for normal sample and 95.45% for abnormal sample. Compared to conventional supervised learning model, the proposed model achieves 5% average improved accuracy by using Bayesian level set based segmentation process. Overall process has improved true positive and false positive values than supervised learning model. Proposed model provides better detection and the overall efficiency also higher than conventional model. The further scope of the research to improve the segmentation accuracy has attained using nature inspired or Meta heuristic optimization algorithm.

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A metaheuristic optimization model for spectral allocation in cognitive networks based on ant colony algorithm (M-ACO)

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Subject: Letter of Intent

To: "mageshselvaraj22it@gmail.com" <mageshselvaraj22it@gmail.com>
Cc: "Shanthi Abayam" <shanthi.abayam@solverminds.com>, "Ravishanker Kannan" <ravishanker.kannan@solverminds.com>

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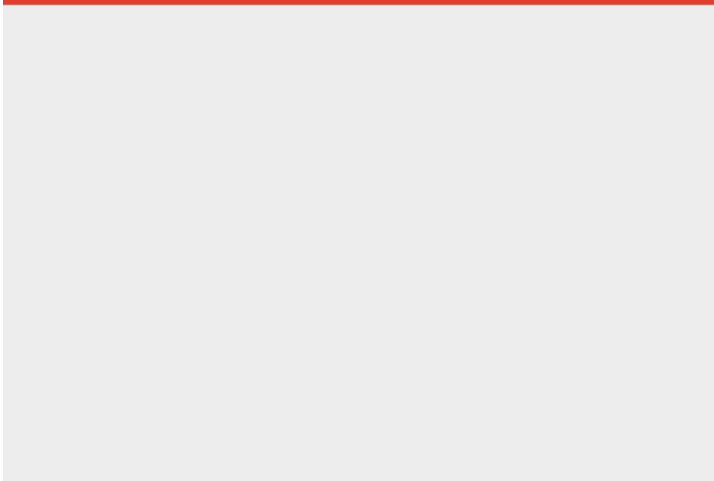
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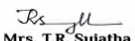



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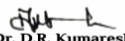



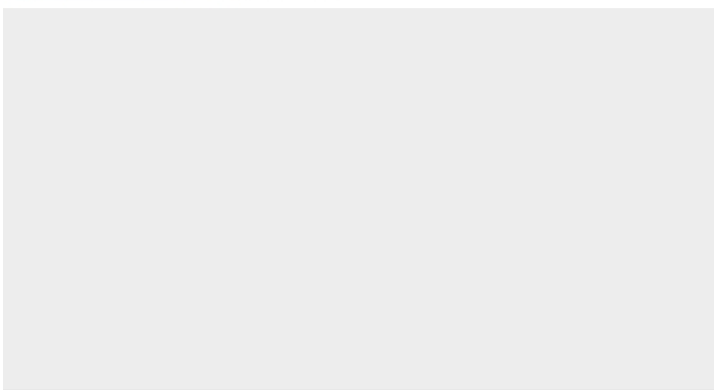
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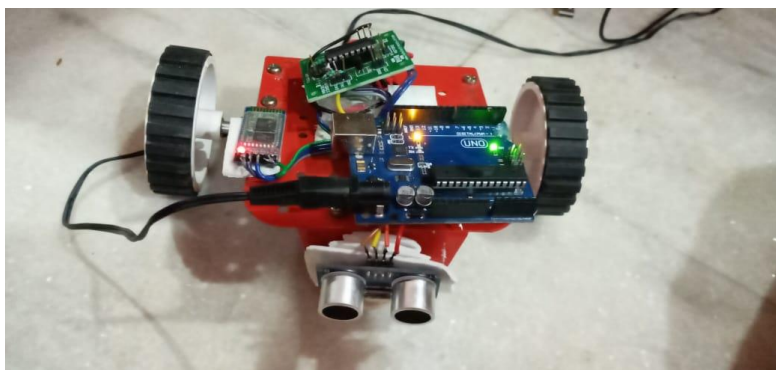
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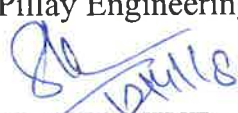
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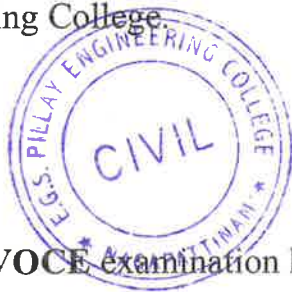
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Certified that this project report “AN EXPERIMENTAL STUDY OF FIBRE REINFORCED GEOPOLYMER CONCRETE USING FLYASH, GGBS AND POLYPROPYLENE FIBRES WITH THE PARTIAL REPLACEMENT OF SAND BY M-SAND” is the bonafide work of “R.ASHA(820814103012),V.M.BAKIYA(820814103014), S.GANGADEVI(820814103028),G.JAYABHARATHI (820814103035)”who carried out the project work under my supervision.

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Dr.R.SIVAKUMAR, M.E,Ph.D.,
HEAD OF THE DEPARTMENT

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Nagapattinam.



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Prof.P.MALLIGA.M.Tech,(Ph.D),
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Submitted for VIVA-VOCE examination held on ...12/7/2018..... at
E.G.S.Pillay Engineering College, Nagapattinam-611 002


INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**EXPREMENTAL INVESTIGATION OF GLASS FIBRE REINFORCED GEO POLYMER CONCRETE**” is the bonafide work of “ **M.ARAVINTHAN (820814103009), V.ASWINKUMAR(820814103013),P.KUNAVASANTHAN(820814103047), B.BALAKUMARAN(820814103303)**” who carried out the project work under my supervision.

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Submitted for VIVA-VOICE examination on 13.04.2018 at E.G.S PILLAY ENGINEERING COLLEGE,NAGAPATTINAM 611002.


INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**REMOVAL OF MICRO ALGAE BY USING RICE STRAW IN STORED WATER** ”is the bonafide work of “**A.ANANTH (820814103003), M.HARITH KUMAR (820814103031), M.JAINAB (820814103034), R.JAYASURYA (820814103038)**” who carried out the project work under my supervision.

SIGNATURE



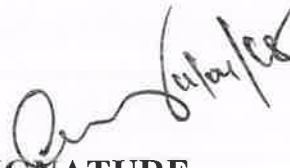
Dr.R..SIVAKUMAR,M.E.,Ph.D

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Mr.S.SHYAM SUNDAR ,M.E.,(Ph.D)

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Submitted to the viva voice held at **E.G.S PILLAY ENGINEERING COLLEGE** On ...12...0A...2018.....

INTERNAL EXAMINER



EXTERNAL EXAMINER



ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “CHARACTERISTICS ANALYSIS OF VEHICLE WASH WASTEWATER USING ORANGE PEEL AS ADSORBENT “is the bonfide work of “K.ARAVINTH(820814103007), A.ARIFA BEGAM(820814103010), D.JAYAPRIYA(820814103037) A.MONICA(820814103061)” who carried out the project work under my supervision.

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INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “PERFORMANCE EVALUATION OF FLEXIBLE ROAD WITH WASTE PLASTICS” is the bonafide work of J.AMARNATH(820814103002), K.ANBCHEZHIAN(820814103004), R.ARUNMOZHI (820814103011), M.ARUN (820814103302) who carried out the project work under my supervision.

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Dr.R.SIVAKUMAR.M.E.,PhD.,

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DEPARTMENT OF CIVIL ENGINEERING

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DEPARMENT OF CIVILENGINEERING

Submitted for VIVA-VOCE examination on..12..04..2018..at
E.G.S.Pillay Engineering College, Nagapattinam - 611002.

EXTERNAL EXAMINER



INTERNAL EXAMINER



ANNA UNIVERSITY, CHENNAI 600 025

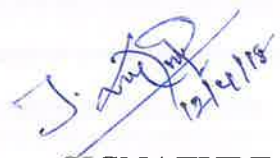
BONAFIDE CERTIFICATE

Certified that this project report “**STRUCURAL PERFORMANCE OF WOOD BASED SANDWICH PANALS**” is the bonafide work of “**ARAVINDHAN.B,BALASUBRAMANIYAN.A,KARTHIKEY.K ,MOHANASUNDAR.K**” who carried out the project under my supervision.

SIGNATURE


Dr.R.SIVAKUMAR. M.E., PhD.
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Submitted for the Viva-Voce examination held on 13.04.2018


INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**EXPREMENTAL STUDIES ON BACTERIAL CONCRETE**” is the bonafide work of “**S.ARAVINDH (820814103005), R.JAGAN (820814103033), V.JAYAKESAN (820814103033), B.DHINESH KUMAR (820814103305)**” who carried out the project work under my supervision.

SIGNATURE

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Ms. M.GAYATHIRI, ME.,

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Submitted for VIVA-VOCE examination on 12-04-18 (A.N)
at E.G.S.PILLAY Engineering College, Nagapattinam – 611 002.

INTERNAL EXAMINER

EXTERNAL EXAMINER



E.G.S.PILLAY ENGINEERING COLLEGE

NAGAPATTINAM – 611 002

(AN ISO 9001:2008 CERTIFIED INSTITUTION)

APPROVED BY AICTE, NEW DELHI

ANNA UNIVERSITY : CHENNAI 600 025



BONAFIDE CERTIFICATE

Certified that this project report “**PERFORMANCE OF CEMENT MORTAR WITH ADDITION OF RICE BRAN**” is the bonafide work of “**P.MUTHURAJA (820814103308)**” who carried out the project work under my supervision.

SIGNATURE

Mr.R.SIVAKUMAR.M.E.,Ph.D.
HEAD OF THE DEPARTMENT

Department of Civil Engineering
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Nagapatinam-611002

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Mr.V.BALASUBRAMANIM.E.,
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Asst.Professer
Department of Civil Engineering
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Nagapatinam-611002

Submitted for VIVA-VOICE examination on **18.07.2018**.....At
E.G.S.PILLAY Engineering College, Nagapattinam 611 002.

EXTERNAL EXAMINER

INTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report " EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF MARBLES WASTES STONE AS COARSE AGGREGATE IN CONCRETE." Is the bonafide of " A.AMALRAJ (820814103301), V.CHANDRAMOHAN (820814103019), D.DHANESHKUMAR (820814103502), S.GUNASEELAN (820814103306)", who carried out the project work under my supervision.

SIGNATURE

Dr.R.SIVAKUMAR.M.E.,Ph.D.,

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Nagapattinam 611 002

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Mr.E.VENKATESAN.M.E.,

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Submitted for VIVA-VOICE Examination On 12.04.2018 At E.G.S.PILLAY ENGINEERING college, Nagapattinam – 611 002

INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY :: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**EXPERIMENTAL INVESTIGATION ON REPLACEMENT OF REINFORCEMENT BY USING BANANA FIBRE AND GLASS FIBRE WITH POLYESTER RESIN**” is the bonafide work of “**DANIAL RAJ .S (820814103020), KIRUTHIKA .S (820814103044), MELINDA SHALI .G (820814103054), MERLIN .S (820814103055)**” who carried out the project work under my supervision.

SIGNATURE

Dr. R. SIVAKUMAR M.E., Ph. D

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Submitted for the VIVA-VOCE Examination held on 12.04.2018 at

E.G.S Pillay engineering college, Nagapattinam

INTERNAL EXAMINER

SIGNATURE

Mr. M. ANBARASAN M.E.,

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Nagapattinam 611002.

EXTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report“**EXPERIMENTAL INVESTIGATION OF SEMI RIGID PAVEMENT**” is the bonafide work of “**NOORE NAZEER.S(820814103067),SANJEEV RAJAN.S (820814103088), SARAVANAN.N(820814103093),VIGNESH .K(820814103112)**”. Who carried out the project work under my supervision.

SIGNATURE



Dr. R.SIVAKUMAR,M.E.,Ph.D.

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Mr.A. ARJUNANM.E.,

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PROJECT SUPERVISOR

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Submitted for VIVA- VOCE examination held on ..12.04.18.....

INTERNAL EXAMINER



EXTERNAL EXAMINER



ANNA UNIVERSITY : CHENNAI

BONAFIDE CERTIFICATE

Certified that this project report **UTILIZATION OF NON RECYCLED PLASTIC WASTE IN CONCRETE PAVER BLOCK** is the bonafide work of **NADARAJAN.S (820814103063)**, **PAVENTHAN.M (820814103069)**, **SANTHOSHKUMAR.C (820814103090)**, **POOVARAJAN.M (820814103071)** who carried out the project work under my supervision.

SIGNATURE

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Assistant Professor

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI – 600025

BONAFIDE CERTIFICATION

Certified that this project report “STUDY ON STRENGTH CHARACTERISTICS OF CONCRETE USING M – SAND AND COCONUT FIBRE” is the bonafide work of “N. PRIYADHARSHINI (820814103075), B. RENUGA (820814103085), P. SANTHOSH (820814103089), V. VIJAYASIVANYA (820814103115)” who carried out the project work under my supervision.

SIGNATURE

DR. R. SIVAKUMAR, M.E., Ph.D.,

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INTERNAL EXAMINAR

EXTERNAL EXAMINAR

ANNA UNIVERSITY : CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report "CLIMATE CHANGE AND REMEDIAL MEASURES FOR NAGAPATTINAM AREA" is the bonafide work of V.RAJADURAIPERUMAL(820814103078),B.PRAKASH(820814103309),R.SABARINADHAN(820814103312),A.YASHIRARAFATH(820814103318)".Who carried out the project work under my supervision.

SIGNATURE

Dr. R.SIVAKUMAR M.E.,Ph.D.,

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Mr. S.SHYAM SUNDAR M.E.,

ASST.PROFESSR

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Nagapattinam 611002.

Submitted for the VIVA – VOCE examination held on ..13/04/..2018

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "TREATMENT OF CONTAMINATED SURFACE WATER FOR EFFECTIVE UTILISATION" is the bonafide work of "R.NITHYANANTHAM (820814103065), G.RAJESH (820814103081), R.VIGNESH KUMAR (820814103113), B.PRATHAP (820810103310)". Who carried out the project work under my supervision.

SIGNATURE


19/4/18

Dr. R.SIVAKUMAR, M.E., Ph.D
(HEAD OF THE DEPARTMENT)

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E.G.S Pillay Engineering College,
Nagapattinam 611 002.


N. R. Vetha Moorhy

SIGNATURE

Mr. N.R.VETHA MOORHY., M.E.
(ASST.PROFESSOR)

PROJECT SUPERVISOR

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Nagapattinam 611 002.

Submitted for VIVA- VOCE examination held on 13.4.18


19/4/18
INTERNAL EXAMINER


13/4/18
EXTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "PARTIAL REPLACEMENT OF FINE AGGREGATE BY PONDASH AND CEMENT BY SILICAFUME IN CONCRETE" is the bonafide work of " N.RESHMA (820814103086) , M.SATHIYAPRIYA (820814103097) , A.SNEHA (820814103102) , M.UMAVATHI (820814103110) " who carried out the project work under my supervision.

SIGNATURE

DR.R.SIVAKUMAR,ME.,PhD.,

Head of the department,

Department of Civil Engineering

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Mr.A.PIRAKASAM,ME,

Assistant professor,

Department of Civil Engineering



Submitted for VIVA - VOCE Examination on ..12.04.2018..at
E.G.S.Pillay Engineering college, Nagapattinam 611002.

INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY: CHENNAI 600 025

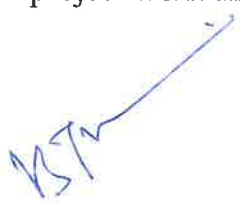
BONAFIDE CERTIFICATE

Certified that this project report “PARTIAL REPLACEMENT OF COARSE AGGREGATE WITH CERAMIC WASTE TILES IN CONCRETE” is the bonafide work of “B.NIVEDITHA (820814103066), E.RUTHRA (820814103087), T.SEEVALAKSHMI (820814103098), G.VIMALA (820814103702)” who carried out the project work under my supervision.

SIGNATURE


Dr. R.SIVAKUMAR, M.E., PH.D
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Submitted for VIVA-VOCE Examination on 13.....4.....18.....at
E.G.S.Pillay Engineering College, Nagapattinam 611002.


INTERNAL EXAMINER


EXTERNAL EXAMINER

ANNA UNIVERSITY : CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report “STUDY ON TRAFFIC MANAGEMENT IN MAYILADUTHURAI” is the bonafide work of A.SATHISH(820814103096), S.SIVABALAN(820814103101), G.SURENDAR(820814103106), G.VINOTH (820814103117)”.Who carried out the project work under my supervision.

SIGNATURE

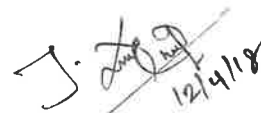


Dr. R.SIVAKUMAR M.E.,Ph.D.,

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SUPERVISOR

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Nagapattinam 611 002.

Submitted for the VIVA – VOCE examination held on .13..07...2018. & FN

INTERNAL EXAMINER



EXTERNAL EXAMINER



ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “STUDY AND EXPERIMENTAL INVESTIGATION OF LEACHATE FROM THE MUNICIPAL SOLID WASTE AT NAGAPATTINAM” is the bonafide work of “PRAVEEN K (820814103074), RAJAVEL J (820814103080), SATHAKI RAMADOSS J (820814103094), SABARI RAJAN T (820814103313)”, who carried out the project work under my supervision.

SIGNATURE



Dr.R.SIVAKUMAR,M.E.,PhD
HEAD OF THE DEPARTMENT
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SIGNATURE



Ms.M.GAYATHRI, M.E.,
SUPERVISOR
Assistant Professor,
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Nagapattinam-611002.

Submitted for viva voce examination on12.04.18.....

INTERNAL EXAMINER



EXTERNAL EXAMINER



ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**EXPERIMENTAL STUDY ON BITUMEN PAVEMENT USING RECYCLED FILLERS**” is the bonafide work of “**PARTHIBAN .V (820814103068), SATHEESHKUMAR .M (820814103095), VIVEK .R (820814103118), RAGHAVAN .R (820814103311)**”. Who carried out the project work under my supervision.

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Dr. R.SIVAKUMAR M.E.,Ph.D

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Submitted for the VIVA-VOCE examination held on ...12.14.2018.....

INTERNAL EXAMINER

EXTERNAL EXAMINER

BONAFIDE CERTIFICATE

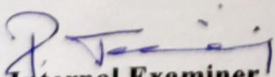
Certified that this project titled "A STUDY ON EMPLOYEES SAFETY AND WELFARE MEASURES IN GANESH DIE CASTING PVT LTD AT CHENNAI" is a bonafide work of Ms.A.AARTHI, Registration Number: E20BAR002, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



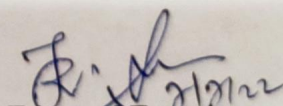
Supervisor/Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



Internal Examiner




External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON HUMAN RESOURCE POLICIES IN JYOTHY LABS LTD AT KARAIKAL" is a bonafide work of Ms. AARTHI .R, Registration number: E20BAR003, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



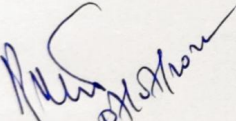
Supervisor



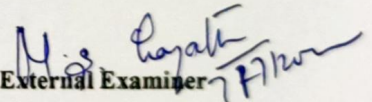
Director

Dr. R. KARTHI, MBA..M.Phil.,Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



Internal Examiner

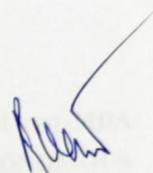


External Examiner

BONAFIDE CERTIFICATE

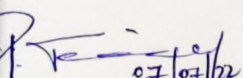
Certified that this project titled "A STUDY ON JOB SATISFACTION AMONG EMPLOYEES IN POOMPUHAR ART AND METAL CENTER AT SWAMINALAI TK" is a bonafide work of Ms. K. ABIRAMI, Registration number: E20BAR004, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

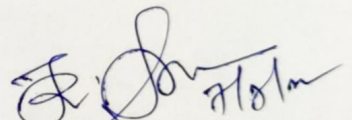

Supervisor


Director

Dr. R. KARTHI, MBA, M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022


Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON PERFORMANCE APPRAISAL IN OIL AND NATURAL GAS CORPORATION LIMITED AT KARAIKAL" is a bonafide work of Ms.A.ABISHA, Registration number: E20BAR005, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

Supervisor

Director

Dr. R. KARTHI, MBA, M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

viva voce examination held on 7.07.22

External Examiner

External Examiner 7/7/22

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON IMPACT OF JOB SATISFACTION ON PRODUCTIVITY IN TOPI VAPPA FOODS PVT. LTD., CHENNAI." is a bonafide work of Mr. AHAMED HAALIDH.T Registration number: E20BAR006, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



Supervisor

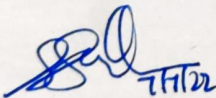
Dr. S. CHANDRASEKAR,
M.Com., MBA., M.Phil., NET(UGC), Ph.D.,
Professor
Department of Management Studies
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.



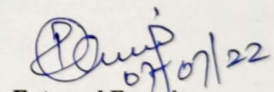
Director

Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



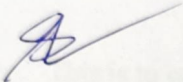
Internal Examiner




External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON LEADERSHIP STYLE IN SVS OIL MILLS PRIVATE LIMITED., CHENNAI." is a bonafide work of Mr. AHMED FARHAN.M Registration number: E20BAR007, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



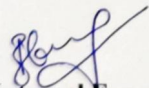
Supervisor



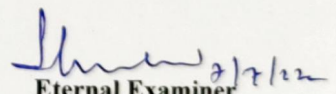
Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.C.R. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



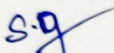
Internal Examiner

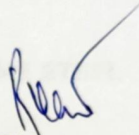


External Examiner

BONAFIDE CERTIFICATE

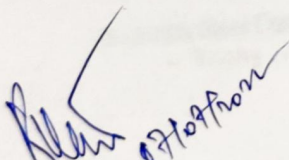
Certified that this project titled "A STUDY ON FINANCIAL PERFORMANCE ANALYSIS IN SUPREME STEEL AT TRICHY" is a bonafide work of Ms. R. AJANTHA, Registration number: E20BAR008, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



Supervisor


Director

Dr. R. KARTHIGAI, MBA, M.Phil, Ph.D.
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E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022


Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON PERFORMANCE APPRAISAL

EFFECTIVENESS ANALYSIS AT SPACE DESIGNERS AND CONSTRUCTION

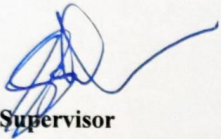
PVT LTD IN CHENNAI" is a bonafide work of Mr. G.AJAY, Registration Number:

E20BAR009, who carried out the research under my supervision. Certified further, that to the

best of my knowledge the work reported herein does not form part of any other project report

or dissertation on the basis of which a degree or award was conferred on the earlier occasion

on their or any other candidate.



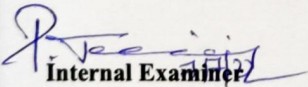
Supervisor



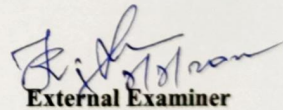
Director

Dr. R. KARTHI, MBA, M.Phil, Ph.D.,
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



Internal Examiner




External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON LABOR ABSENTEEISM IN PRISM JOHNSON PVT. LTD., KARAİKAL." is a bonafide work of Mr. AJWADH AHMED.M Registration number: E20BAR010, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



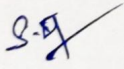
Supervisor



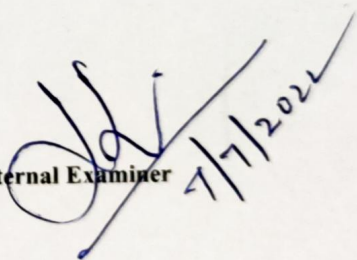
Director

Dr. R. KARTHI, MBA, M.Phil Ph.D.
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E.C.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



Internal Examiner



External Examiner

7/7/2022

BONAFIDE CERTIFICATE

certified that this project titled "A STUDY ON THE IMPACT OF JOB SATISFACTION IN PRISM
JOHNSON PVT. LTD., CHENNAI." is a bonafide work of Mr. AKASH. R Registration number:
EGBAR011, who carried out the research under my supervision. Certified further, that to the best of my
knowledge the work reported here in does not form part of any other project report or dissertation on the
basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

Supervisor



Dr. S. CHANDRASEKAR,
M.Com., MBA., M.Phil., NET(UGC), Ph.D.,
Professor
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Nagapattinam - 611 002.

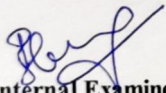
Director



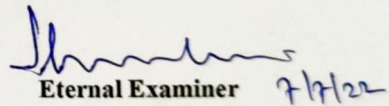
Dr. R. KARTHI, MBA., M.Phil., Ph.D.
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E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022

Internal Examiner



Eternal Examiner




7/7/22

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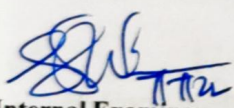
Certified that this project titled "A STUDY ON EMPLOYEE MOTIVATION IN NEYCER INDIA PRIVATE LIMITED AT CHENNAI" is a bonafide work of Mr.ARAVINTH. D,Registration number: E20BAR013, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

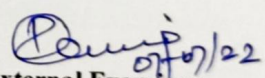

Supervisor


Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
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E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

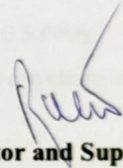
Viva voce examination held on 07 / 07 / 2022


Internal Examiner


External Examiner
[R. Gowri]

BONAFIDE CERTIFICATE

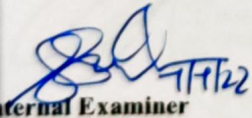
Certified that this project titled "A STUDY ON EMPLOYEE WELFARE IN TVARUR
DILS AND FATS PVT LTD AT THIRUVARUR" is a bonafide work of Ms. K.ARCHANA,
registration number: E20BAR014, who carried out the research under my supervision Certified
further, that to the best of my knowledge the work reported herein does not form part of any
other project report or dissertation on the basis of which a degree or award was conferred on the
earlier occasion on their or any other candidate.



Director and Supervisor

**Dr. R. KARTHI, MBA..M.Phil..Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.**

viva voce examination held on 07.07.2022



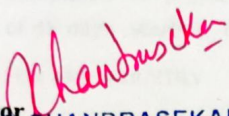
Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE ENGAGEMENT IN ACR INDUSTRY AT TRICHY" is a bonafide work of Mr. ARUL AROKIAM MILTON, Registration number: E20BAR016, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

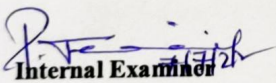


Supervisor
Dr. S. CHANDRASEKAR,
M.Com., MBA., M.Phil., NET(UGC), Ph.D.,
Professor
Department of Management Studies
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.

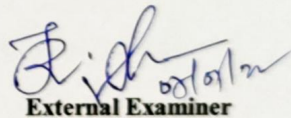


Director
Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



Internal Examiner

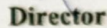


External Examiner

BONAFIDE CERTIFICATE

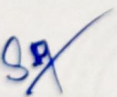
Certified that this project titled "A STUDY ON FINANCIAL STATEMENT ANALYSIS AND WORKING CAPITAL MANAGEMENT IN SRI VEERABATHIRA BENEFITS FUND LIMITED AT NAGAPATTINAM" is a bonafide work of Ms. R. ARUL KEERTHIKA, Registration number: E20BAR017, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.


Supervisor


Director

Dr. R. KARTHI, MBA, M. PHIL, PH. D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.


Viva voce examination held on 07.07.2022



Internal Examiner


External Examiner

BONAFIDECERTIFICATE

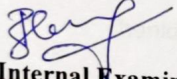
Certified that this project titled "A STUDY ON WORKING CAPITAL MANAGEMENT IN KAMALAMBIKA CO-OPERATIVE URBAN BANK LTD AT THIRUVARUR" is a bonafide work of Ms. T. ATCHAYA, Registration number: E20BAR018, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

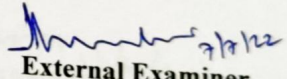

A. ARULPRAKASH, B.Tech., MBA.,
Supervisor Assistant Professor
Department of Management Studies
G.S. Pillay Engineering College
Nagapattinam - 611 002.
Mobile: 99433 11192


Director

Dr. R. KARTHI, Ph.D.,
Director / MBA
G.S. Pillay Engineering College,
Nagapattinam - 611 002.

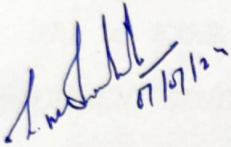
Viva voice examination held on 7.7.22


Internal Examiner

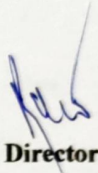

External Examiner

BONAFIDE CERTIFICATE

ied that this project titled "A STUDY ON EMPLOYEE RELATIONSHIP MANAGEMENT
ARUTI SERVICE MASTERS AT CHENNAI" is a bonafide work of Ms. B.BAVISTI,
stration number: E20BAR020, who carried out the research under my supervision. Certified
er, that to the best of my knowledge the work reported herein does not form part of any other
ct report or dissertation on the basis of which a degree or award was conferred on the earlier
sion on their or any other candidate.



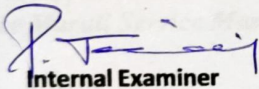
Supervisor



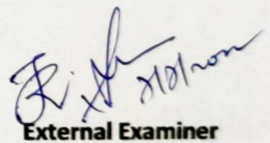
Director

Dr. R. KARTHI, MBA, M.Phil
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE'S RETENTION STRATEGY WITH SPECIAL REFERENCE INSOLUTION AT CHENNAI" is a bonafide work of MR.BHARATHKUMAR R, Registration number: E20BAR021, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



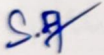
Supervisor



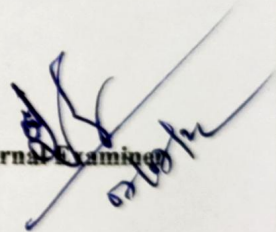
Director

Dr. P. KARTHIK, MBA, M.Phil., Ph.D.
Director / ABA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002

Viva voice examination held on 07.07.2022



Internal Examiner

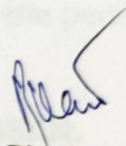


External Examiner

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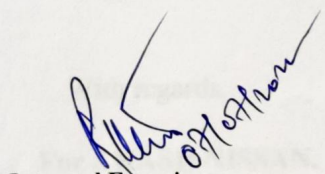
Certified that this project titled "A STUDY ON TRAINING AND DEVELOPMENT IN AHASH NISSAN, THANJAVUR" is a bonafide work of Ms. A. BHAVANISHA, Registration number: E20BAR022, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

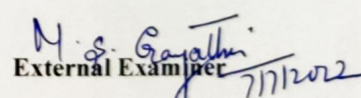

Supervisor


Director

Dr. R. SARTHU, M.Sc., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

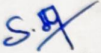
Viva voice examination held on 7-7-2022


Internal Examiner


External Examiner 7/7/2022

BONAFIDE CERTIFICATE

Certificate that this project titled "A STUDY ON EMPLOYEES JOB SATISFACTION IN OIL AND NATURAL GAS CORPORATION LIMITED AT NERAVY, KARAIKAL" is the bonafide work of **Ms. G. BRUNDHA**, Registration Number: **E20BAR023**, who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on their or any other candidate.



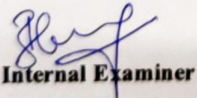
Supervisor



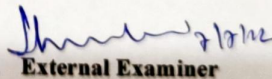
Director

Dr. R. KARTHAN, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



Internal Examiner

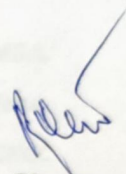


External Examiner

BONAFIDE CERTIFICATE


Certified that this project titled “**A STUDY ON PERFORMANCE APPRAISAL IN OIL AND NATURAL GAS CORPORATION LIMITED IN NERARY(Po) KARAİKAL**” is a bonafide work of **R. CHELLAMMAL**, Registration number: **E20BAR024**, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

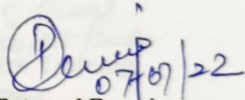

Supervisor


Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Neogupattinam - 611 002.

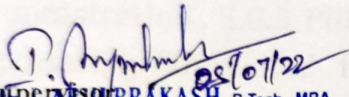
Viva voce examination held on 07.07.2022

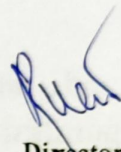

Internal Examiner


External Examiner
[R. Gowri]


BONAFIDECERTIFICATE


Certified that this project titled "A STUDY ON EMPLOYEE WELFARE MEASURE IN AMMAIYAR MILK DAIRY AT KARAİKAL" is a bonafide work of Ms.S.DIVYA, Registration Number : E20BAR025, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.


S. PRAKASH, B.Tech., MBA.,
Assistant Professor
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Director
Dr. R. KARTHI, MBA., M.Phil., Ph.D.,
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

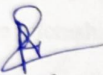
Viva voice examination held on 07.07.2022



Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

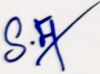
Certified that this project titled "A STUDY ON EMPLOYEE'S TRAINING AND DEVOLPMENT IN VISION PLUS PRIVATE LIMITED AT CHENNAI" is a bonafide work of **MR.FARISH AHAMED S**, Registration number: **E20BAR026**, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

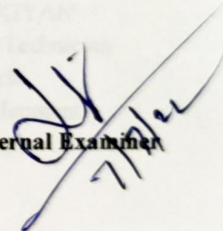

Supervisor


Director

Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

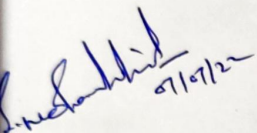
Viva voice examination held on 07.07.2022


Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

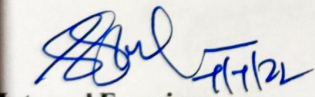
Certified that this project titled "A STUDY ON ANALYSIS OF FINANCIAL STATEMENTS IN KUMBAKONAM CENTRAL COOPERATIVE BANK LTD AT NAGAPATTINAM" is a bonafide work of Ms. Y.FOUZIA, Registration number: 20BAR027, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

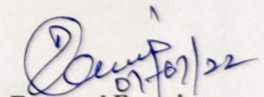

Supervisor


Director

Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 617 001

Viva voce examination held on 7/7/22

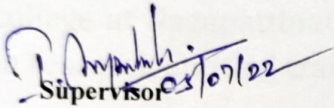

Internal Examiner


External Examiner

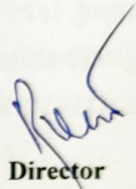
[R. Gowri]

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE STRESS MANAGEMENT IN RAMTEC CONSTRUCTION COVERS AND BLOCKS PRIVATE LIMITED AT THIRUVARUR" is a bonafide work of Ms.M.GOWRI, Registration number: E20BAR028, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

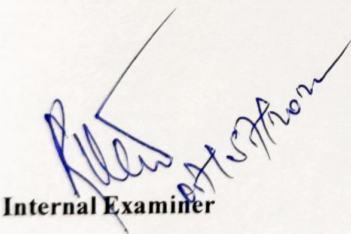

Supervisor 05/07/22

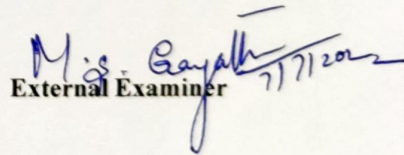
Mr. I. ARULPRAKASH, B.Tech., MBA.,
Assistant Professor
Department of Management Studies
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.
Mobile: 99433 11192


Director

Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voice examination held on 7/7/2022


Internal Examiner


External Examiner 7/7/2022

BONAFIDECERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE ABSENTEEISM IN GRANITE PRIVATE LIMITED AT SALEM " is a bonafide work of Mr.GUHAN.K,Registration number: E20BAR029, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



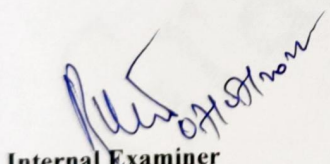
Supervisor



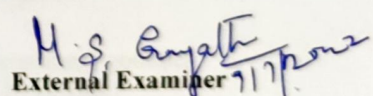
Director

Dr. R. KARTHI, M.B.A. M.Phil. Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 7.7.2022



Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEES SAFETY AND HEALTH IN TVARUR OILS AND FATS PRIVATE LIMITED AT THIRUVARUR" is a bonafide work of Ms. K.GUNA, Registration number: E20BAR030, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

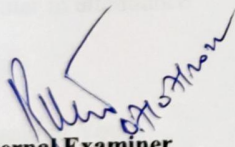
TO WHOM IT MAY CONCERN

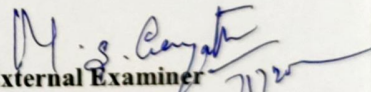

Supervisor


Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

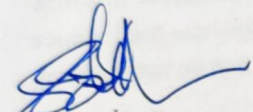
Viva voce examination held on 07.07.2022

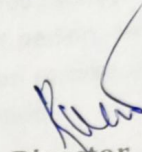

Internal Examiner


External Examiner

BONAFIDE CERTIFICATE


Certified that this project titled "A STUDY ON TRAINING AND DEVELOPMENT IN TECHGRADER SOLUTIONS AT WEST TAMBARAM" is a bonafide work of Mr.HARI PRASATH . R ,Registration number: E20BAR031, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

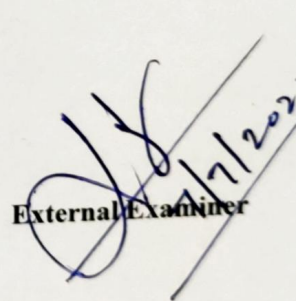

Supervisor


Director

Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022


Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

Certificate that this project title "A STUDY ON STRESS AND ITS IMPACTS AMONG EMPLOYEES IN RECRUITMENT INDUSTRY IN VHR SOLUTION PVT LTD, AT BANGALORE". Is the bonafide work of Ms. S. HEMA, Registration Number: E20BAR032, who carried out the project work under my supervision. Certificate further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on their or any other candidate.

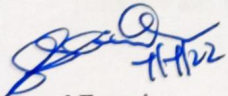
S.G

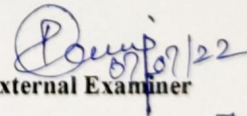
Supervisor


Director

Dr. R. KARTHI, MBA..M.Phil 2nd D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on : 07/07/2022


Internal Examiner


External Examiner

[R. Gowri]

BONAFIDE CERTIFICATE

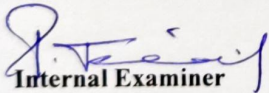
Certified that this project titled "A STUDY ON EMPLOYEE PARTICIPATION IN MANAGEMENT DECISION MAKING IN PRAGATHI OILS AT MAYILADUTHURAI" is a bonafide work of Ms. A. HEMALATHA, Registration number: E20BAR033, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



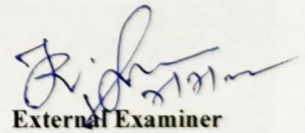
Director and Supervisor

Dr. R. KARTHI, M.B.A., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "EMPLOYEES PERCEPTION IN

RECRUITMENT" is a bonafide work of Mr. INDHIARASAN.T, Registration number:

E20BAR034, who carried out the research under my supervision. Certified further, that to the

best of my knowledge the work reported herein does not form part of any other project report or

dissertation on the basis of which a degree or award was conferred on the earlier occasion on

their or any other candidate.



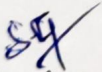
Supervisor



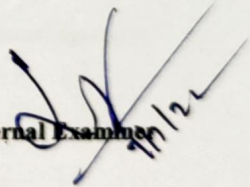
Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voice examination held on 07/07/2022



Internal Examiner




External Examiner

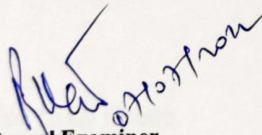
BONAFIDE CERTIFICATE

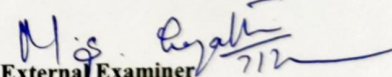
Certified that this project titled "A STUDY ON CAPITAL BUDGETING IN TASTY FOODS AT NAGAPATTINAM" is a bonafide work of Mr. J. JASHAR AHAMED, Registration number: E20BAR036, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.


Mr. I. ARULPRAKASH, B.Tech., MBA.,
Supervisor Assistant Professor
Department of Management Studies
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.
Mobile: 99433 11192


Director
Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022


Internal Examiner

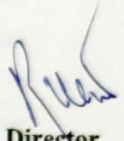

External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE'S PERCEPTION ON AND SELECTION PROCESS IN GRANITE PRIVATE LIMITED AT SALEM" is a bonafide work of MR. JEAN VERGHES J, Registration number: E20BAR037, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



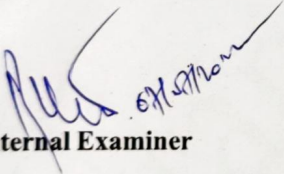
Supervisor



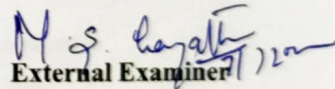
Director

Dr. R. KARTHIC, MBA, M. Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voice examination held on 07/07/2022



Internal Examiner



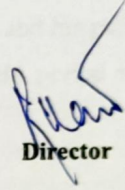
External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE ^{SAFETY MEASURES} ENGAGEMENT IN KHARIF CROP SOLUTION INDUSTRY AT THANJORE" Is a bonafide work of Mr. JONES ALEN.J, Registration number: E20BAR039, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



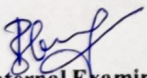
Supervisor



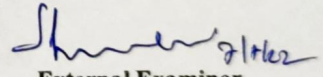
Director

Dr. R. KARTHI, MSA, M Phil, Ph.D.
Director / MBA
E.G.S Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

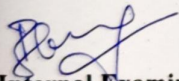
Certified that this project titled "A STUDY ON EMPLOYEE ABSENTEEISM IN SHRIRAM CHITS INDIA PVT LTD IN NAGAPATTINAM" is a bonafide work of MR.KABILAN, Registration number: E20BAR040, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

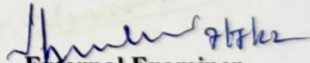

Supervisor


Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MEA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

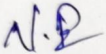
Viva voce examination held on 07/07/2022


Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE'S MOTIVATION IN TECH ZONE PVT.LTD. PERUNGALATHUR, CHENNAI" is a bonafide work of Mr.T. KARTHIK Registration number: E20BAR041 who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



Supervisor


Director

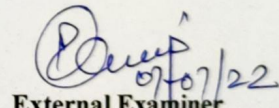
Dr. R. KARTHI M.B.A. M.Phil. Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on

7/7/22



Internal Examiner



External Examiner
[R. GOWRI]

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON PERFORMANCE APPRAISAL SYSTEM OF MODERN PIPES LTD AT PALLADAM" is a bonafide work of Ms. K. KARTHIKA, Registration number: E20BAR042, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



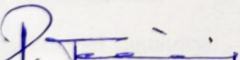
Supervisor



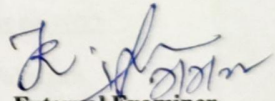
Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Hogapattinam - 611 002.

Viva voce examination held on 07/07/2022



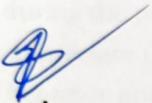
Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE RETENTION STRATEGY IN STANDARD ELECTRICAL PVT. LTD., COIMBATORE." is a bonafide work of Mr.KARUNAKARAN.N Registration number: E20BAR043, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



Supervisor



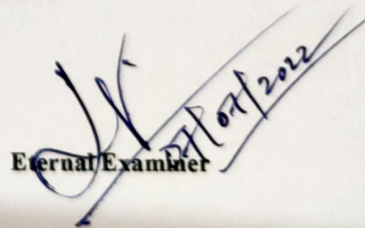
Director

Dr. R. KARTHI, M.A., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 062.

Viva voce examination held on 07/07/2022



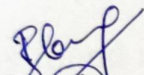
Internal Examiner




External Examiner

BONAFIDE CERTIFICATE

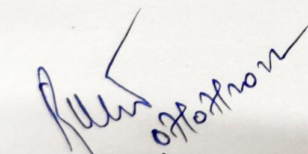
Certified that this project titled "A STUDY ON EMPLOYEES' PERSPECTIVE TOWARDS E-RECRUITMENT IN REDINGTON PVT LTD, CHENNAI" is a bonafide work of Ms. R. KARUNYA, Registration number: E20BAR044, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

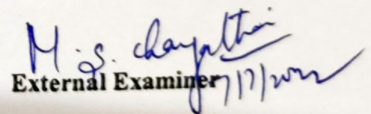

Supervisor


Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022


Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE MOTIVATION IN AHASH NISSAN, THANJAVUR" is a bonafide work of Ms. R.KAVITHA, Registration number: E20BAR045, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



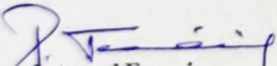
Supervisor



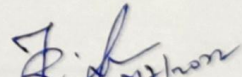
Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



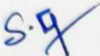
Internal Examiner

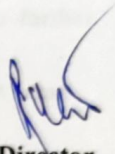


External Examiner

BONAFIDE CERTIFICATE

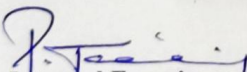
Certified that this project titled "A STUDY ON EMPLOYEE WORK LIFE BALANCE IN TECH GRADER SOLUTIONS PVT. LTD. AT TAMBARAM WEST- CHENNAI." is a bonafide work of Mr. KAVIYARASAN.M Registration number: E20BAR046, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

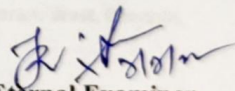

Supervisor


Director

Dr. R. KARTHI, M.B.A. M.Phil. Ph.D.
Director / MBA
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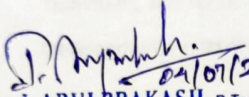
Viva voce examination held on 07/08/201



Internal Examiner


External Examiner

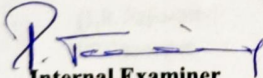
BONAFIDE CERTIFICATE

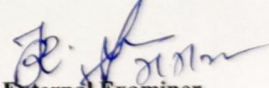
Certified that this project titled "A STUDY ON TRAINING AND DEVELOPMENT IN VELICHAM FINANCE PRIVATE LIMITED AT THIRUVARUR" is a bonafide work of Ms. R. KAVYA, Registration number: E20BAR047, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.


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Viva voce examination held on 07.07.2022



Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

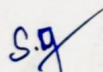
Certified that this project titled **"A STUDY ON RECRUITMENT AND SELECTION PROCEDURES IN BHARATHI WOMEN DEVELOPMENT CENTRE AT THIRUVARUR"** is a bonafide work of **Ms.S.KAYALVIZHI**, Registration number: **E20BAR048**, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

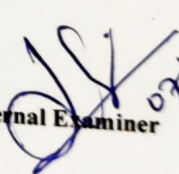

Supervisor


Director

Dr. R. KARTHI, MBA..M.Phil.,Ph.D.,
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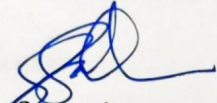
Viva voce examination held on 07.07.2022


Internal Examiner

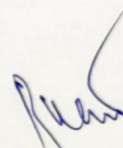

External Examiner
07/07/2022

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EFFECTIVENESS OF RECRUITMENT AND SELECTION PROCESS IN TATA CONSULTANCY SERVICES" is a bonafide work of Ms.KIRUTHIKA, Registration number: E20BAR049, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



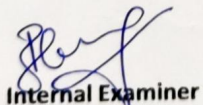
Supervisor



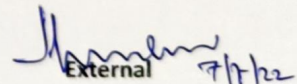
Director

Dr. R. KARTHI, M.B.A., M.Phil., Ph.D.
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Viva voce examination held on 07.07.2022.



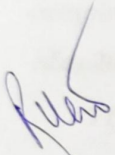
Internal Examiner
Examiner



External
7/7/22

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON ORGANISATION CULTURE IN SUPREME STEEL COMPANY AT TRICHY" is a bonafide work of Ms. R.MAHALAKSHMI, Registration number: E20BAR051, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



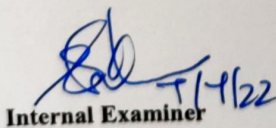
Supervisor



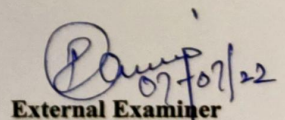
Director

Dr. R. KARTHI, MBA., M.Phil., Ph.D.
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Viva voce examination held on 07.07.2022



Internal Examiner

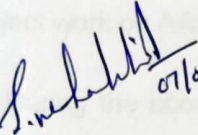


External Examiner

[R. Gowri]

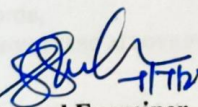
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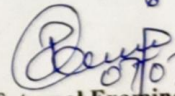
Certified that this project titled "A STUDY ON EMPLOYEES JOB SATISFACTION IN ADITHIYA FERRO ALLOYS PVT.LTD., KARAIKAL" is a bonafide work of Mr. H. MOHAMED ABDUL BASITH, Registration number: E20BAR052, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.


07/07/22
Supervisor


Director
Dr. R. KARTHI, MBA, M.Phil., Ph.D.
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Viva voce examination held on 07/07/2022

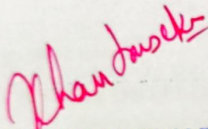

Internal Examiner


07/07/22
External Examiner
[R. Gowri]

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EFFECTIVENESS EMPLOYEE WELFARE MEASURES IN DECCAN PUMPS PRIVATE LIMITED AT COIMBATORE" is a bonafide work of Mr. Mohamed Azarudeen.S, Registration number: E20BAR053, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

Supervisor



Dr. S. CHANDRASEKAR,
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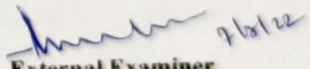
Dr. R. KARTHI, MBA., M.Phil., Ph.D.
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Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022

Internal Examiner



External Examiner



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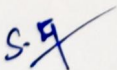
Certified that this project titled "A STUDY ON TRAINING AND DEVELOPMENT IN SQUARE ONE INFOSOLUTIONS PVT. LTD., CHENNAI." is a bonafide work of Mr. MOHAMED EHSAN.J Registration number: E20BAR054, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

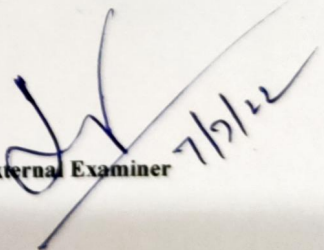

Supervisor


Director

Dr. R. KARTHI, MBA., M. Phil., Ph. D.
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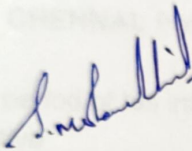
Viva voce examination held on 7/7/2022


Internal Examiner


External Examiner 7/7/22

BONAFIED CERTIFICATE

Certified that this project titled "A STUDY ON WORK LIFE BALANCE IN TOPIVAPPA FOODS PVT. LTD., CHENNAI." is a bonafide work of Mr. MOHAMED SIRAJUDEEN.A Registration number: E20BAR055, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.


07/07/22

Supervisor

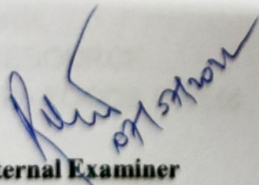
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Assistant Professor
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Mobile: 79040 19933



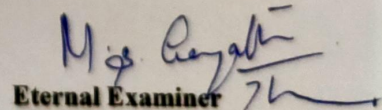
Director

Dr. R. KARTHI, M.B.A., M.Phil., Ph.D.
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E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022


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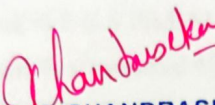
Internal Examiner


7th

Eternal Examiner

BONAFIDE CERTIFICATE


Certified that this project titled "A STUDY ON PERFORMANCE APPRAISAL IN SUNTECH ENERGREEN PVT LTD" is a bonafide work of Mr.R.NANDA KUMAR, Registration number: E20BAR057, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate



Supervisor **S. CHANDRASEKAR,**
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Director

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Director / MBA
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Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022


Internal Examiner


External Examiner
7/7/2022

BONAFIDE CERTIFICATE

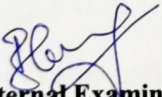
Certified that this project titled "A STUDY ON WORKLIFE BALANCE OF EMPLOYEES IN JYOTHY LABS LTD AT KARAİKAL" is a bonafide work of Ms. R. NANDHINI, Registration number: E20BAR058, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



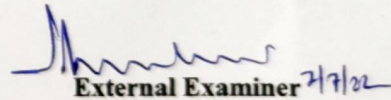
Supervisor & Director

Dr. R. KARTHI, MBE, M.Phil., Ph.D.
Director / MBA
S.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



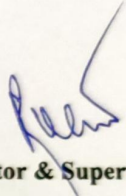
Internal Examiner



External Examiner 7/7/22

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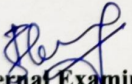
Certified that this project titled "A STUDY ON EMPLOYER AND EMPLOYEE RELATIONSHIP IN AMMAIYAR MILK DAIRY AT KARAIKAL" is a bonafide work of Ms. K. NESHKA, Registration number: E20BAR059, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



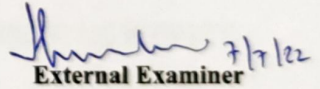
Director & Supervisor

Dr. R. KARTHI, MBA..M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07-07-2022



Internal Examiner



7/7/22


External Examiner

BONAFIDE CERTIFICATE

certified that this project titled "A STUDY ON TRAINING AND DEVELOPMENT IN HARATHI WOMENS DEVELOPMENT CENTER AT KATTUR" is a bonafide work of s. K. NILA OLI, Registration number : E20BAR060, who carried out the research under my supervision. I am further certified that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on either or any other candidate.



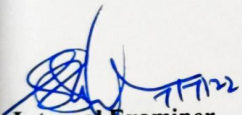
Supervisor



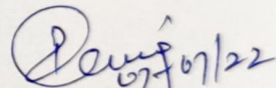
Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07-07-2022



Internal Examiner

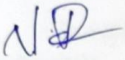


External Examiner

[R. Gowri]

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON STRESS MANAGEMENT SIVASAKTHI NUTRITION INDUSTRIES AT PERAMBALUR" is a bonafide work of Ms.R.Nisha Registration number: E20BAR061, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



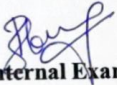
Supervisor



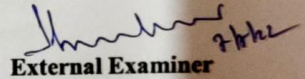
Director

Dr. R. MARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON RECRUITMENT AND SELECTION IN OIL AND NATURAL GAS CORPORATION LIMITED AT KARAİKAL" is the bonafide work of Ms. K. NISHANTHINI, Registration number: E20BAR062, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project or dissertation on the basis of which a degree or award was conferred on earlier occasion on their or any other candidate.



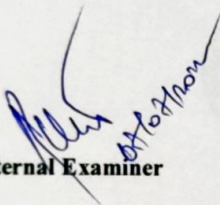
Supervisor



Director

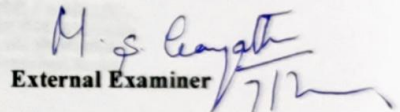
Dr. R. KARTHI, MBA, M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 602.

Viva voice examination held on 07/07/2022



07/07/2022

Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE TRAINING AND DEVELOPMENT EFFECTIVENESS AT SRI VELLINGIRI ANDAVAR CERAMICS IN ERODE" is a bonafide work of **Mr. D. NITHESH KUMAR**, Registration Number: **E20BAR063**, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



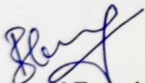
Supervisor



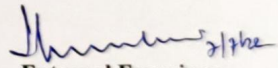
Director

Dr. R. KARTHIC, M.A., M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/22




Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

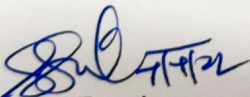
Certified that this project titled "A STUDY ON EMPLOYEE HEALTH AND SAFETY IN OPG METAL PVT.LTD, MAYILADUTHURAI" is a bonafide work of Mr.NITHISH.V, Registration number: E20BAR064, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



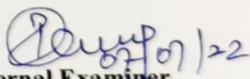
Supervisor/ Director

Dr. R. K. ARJUN, M.B.A., M.Phil., Ph.D.
Director / MZA
E.G.S. Pillay Engineering College,
Nagapattinam - 605 002.

Viva voce examination held on 07/07/22



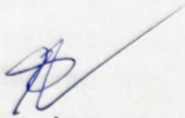
Internal Examiner



External Examiner
[R. Gowri]

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON TRAINING AND DEVELOPMENT IN KOTHARI SUGARS AND CHEMICALS LTD AT ARIYALUR is a bonafide work of Ms.R.PARAMESWARI, Registration number: E20BAR066, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



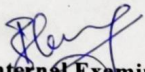
Supervisor



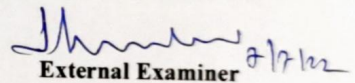
Director

Dr. R. KARTHI, MSA., M. PHIL., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



Internal Examiner



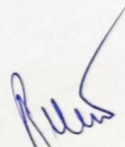
External Examiner

BONAFIDE CERTIFICATE

Certified that this project report titled "A STUDY ON WORKING CAPITAL MANAGEMENT AND RATIO ANALYSIS IN SRI LAKSHMI NARAYANA CO-OPERATIVE URBAN BANK LTD AT THIRUVARUR." is the bonafide work of Ms. **PRADEEPA.R** Registration Number: **E20BAR068** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein dose not form part of any other summer training report on the basis of which a degree or award was conferred on an occasion on their or any other candidate.



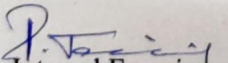
Supervisor



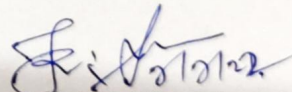
Director

Dr. R. KARTHI, MBA, M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Internal viva voice examination held on 7.07.2022




Internal Examiner.

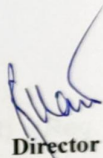


External Examiner

BONAFIDE CERTIFICATE

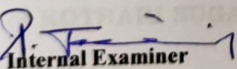
Certified that this project titled "A STUDY ON RECRUITMENT AND SELECTION PROCESS TOWARDS KOTHARI SUGARS AND CHEMICALS LTD AT ARIYALUR DISTRICT" is a bonafide work of **Ms. R. PRASANNADEVI**, Registration number: **E20BAR069**, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

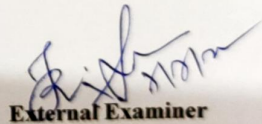

Supervisor


Director

Dr. R. KARTHI, MBA, M Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

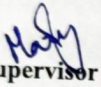
Viva voce examination held on 07/07/2020

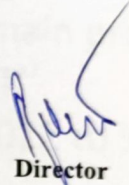

Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

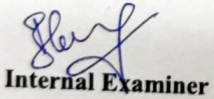
Certified that this project titled "A STUDY ON EMPLOYEE ENGAGEMENT IN PRAGATHI OIL AT MAYILADUTHURAI" is a bonafide work of Ms. P. PRIYADHARSHINI, Registration number: E20BAR071, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

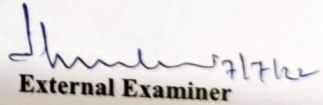

Supervisor


Director

DR. KARTHI, M.B.A., M. Phil., Ph. D.
Director / MBA
E.E.P. Pray Engineering College,
Nangunattanam - 611 002.

Viva voce examination held on 07/07/2022


Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE TRAINING AND DEVELOPMENT FORTIS HEALTH CARE LTD AT BANGALORE" is a bonafide work of Mr. RAJESH S, Registration number: E20BAR072, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

S. Mohamed Naina Maricar
24/7/22

Supervisor

Mr. S. MOHAMED NAINA MARICAR, MBA,
Assistant Professor
Department of Management Studies
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.
Mobile: 79040 19933

Dr. R. Karthi

Director

Dr. R. KARTHI, M.A., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022

S. G. X

Internal Examiner

Dr. R. Karthi

External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE WORK LIFE BALANCE OF EMPLOYEES IN MASTORWIN PHARMACEUTICAL AT CHENNAI" is a bonafide work of Ms.RAJESWARI, Registration number: E20BAR073, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

Supervisor

Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022

Internal Examiner

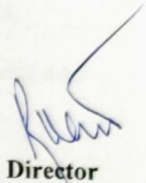
M.S. Rajeswari
External Examiner 7/12/22
(Dr. M.S. Rajeswari)

BONAFIDECERTIFICATE

Certified that this project titled "A STUDY ON RECRUITMENT AND SELECTION PROCESS IN VHR SOLUTIONS PRIVATE LIMITED, BANGALORE" is a bonafide work of Mr. RAMESH T, Registration number: E20BAR074, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



Supervisor



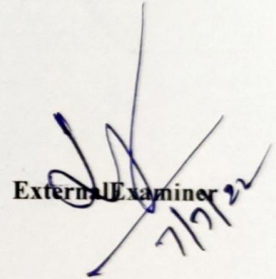
Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Vivavoceexaminationheldon 07-07-2022



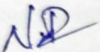
Internal Examiner



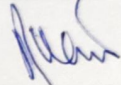
External Examiner
7/7/22

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON STRESS (PROFICIENT) MANAGEMENT AMONG PRO KNITS PRIVATE LTD AT TIRUPUR" is a bonafide work of Ms. R. RAMKUMAR, Registration number: E20BAR075, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



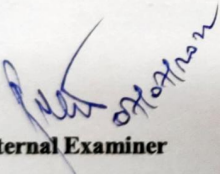
Supervisor



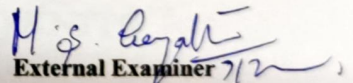
Director

Dr. R. KARTHI MRA M PHIL, PH.D.
Director: MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/22




Internal Examiner



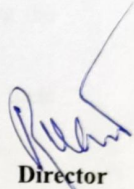
External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE MOTIVATION SUNRISE KNITTING MILLS AT TIRUPUR" is a bonafide work of MR. S. RANJITHKUMAR Registration number: E20BAR076, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



Supervisor

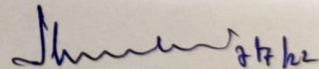


Director

Dr. R. KARTHI, MBA, M.F.M, Ph.D.
Director / MBA
C.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voice examination held on 07.07.2022

Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

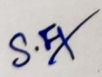
Certified that this project titled "A STUDY ON EMPLOYEE WELFARE IN PRISM JOHNSON LIMITED, KARAIKAL" is a bonafide work of Ms.RENISHA .R,Registration number: E20BAR077, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



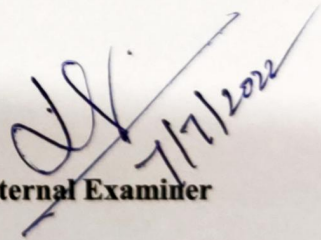
Supervisor /Director

Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voice examination held on 07/07/2022



Internal Examiner




External Examiner

BONAFIDE CERTIFICATE


certified that this project titled "A STUDY ON RECRUITMET AND SELECTIONN PROCESS
VELICHAM FINANCE PRIVATE LIMITED AT THIRUVARUR" is a bonafide work of
s. V. SANGAVI, Registration number: E20BAR078, who carried out the research under my
pervision. Certified further, that to the best of my knowledge the work reported herein does not
form part of any other project report or dissertation on the basis of which a degree or award was
conferred on the earlier occasion on their or any other candidate.

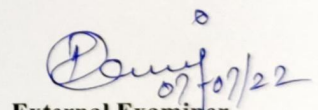

Supervisor


Director

Dr. R. KARTHI, MBA..M.Phil..Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 602.

Viva voce examination held on 07.07.2022


Internal Examiner


External Examiner

[R. Gowri]

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON TRAINING AND DEVELOPMENT OF THE EMPLOYEE IN PURE & CURE AQUAA FOODS AT TRICHY " is a bonafide work of Ms. R.SANGEETHA, Registration number: E20BAR079, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



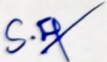
Supervisor



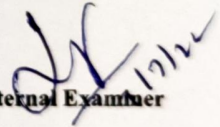
Director

Dr. R. KARTHI, MBA, M Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 7.7.22



Internal Examiner

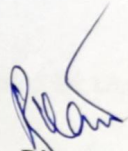


External Examiner


BONAFIDE CERTIFICATE

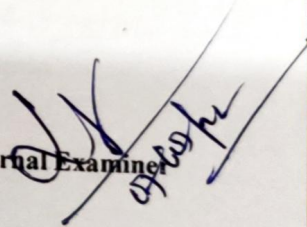
Certified that this project titled "A STUDY ON EMPLOYEE ENGAGEMENT IN NATIONAL INSTITUTE OF INFORMATION TECHNOLOGY AT CHENNAI" Is a bonafide work of Mr. SANKARANARAYANAN, Registration number: E20BAR080, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.


Supervisor


Director
Dr. R. KARTHI, MBA..M.Phil.,Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022

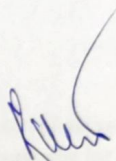

Internal Examiner


External Examiner

BONAFIDE CERTIFICATE

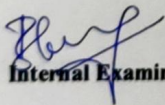
Certified that this project titled **"A STUDY ON EMPLOYEE ABSENTEEISM IN PRAVEEN CHEM INDUSTRY AT PVT. LTD.,KARAIKAL"** is a bonafide work of **Mr. SHAIK ABDULLA**.A Registration number: **E20BAR081**, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

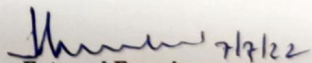

Supervisor


Director

Dr. R. KARTHI, MDA., M. Phil., Ph. D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022


Internal Examiner

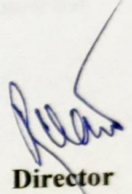

External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled **A STUDY ON EMPLOYEE MOTIVATION IN MARUTHI**

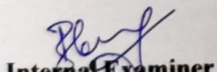
SIRME mats, Chennai is a bonafide work of **Ms. M. Shalini**, Registration number: **E20BAR082**, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

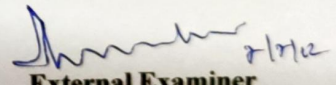

Supervisor


Director

Dr. R. KARTHI, MPA, M.Phil., Ph.D.
Director / MCA
E.C.S. Pillay Engineering College,
Nagapattinam - 611 002

Viva voce examination held on 7-07-2022


Internal Examiner

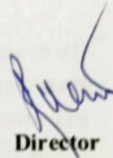

External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE MOTIVATION IN PRANAR OIL AND CHEMICAL PVT. LTD., COIMBATORE." is a bonafide work of Mr. SHAMEER AHMED.S Registration number: E20BAR083, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



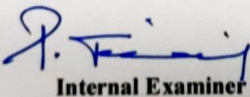
Supervisor



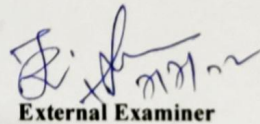
Director

Dr. R. KARTHI, MBA, M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE'S SATISFACTION IN INFOSYS SOLUTION AT CHENNAI" is a bonafide work of MR.SHANMUGARAJ R, Registration number: E20BAR084, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



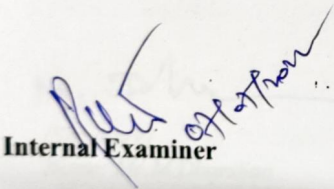
Supervisor



Director

Dr. R. MARTIN, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 7.7.2022

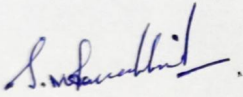


Internal Examiner

M. S. Gayathri
External Examiner
(DR. M. S. GAYATHRI)
A.V.C. College of Engg.

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON HR POLICY AND EFFECTIVE STRATEGY IN GAIL INDIA LIMITED AT KARAIKAL" is a bonafide work of Ms. k .SIVASANKARI Registration number: E20BAR085, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



Supervision

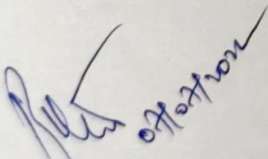
Mr. S. MOHAMED NAINA MARICAR, MBA.,
Assistant Professor
Department of Management Studies
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.
Mobile: 79040 19933



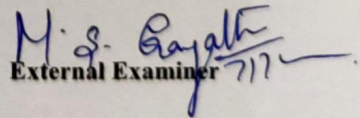
Director

Dr. R. KARTHI, MBA, M PHIL PH D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



Internal Examiner




External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE RELATIONSHIP MANAGEMENT" is a bonafide work of Ms. A.SOWNTHARIYA, Registration number: E20BAR086, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



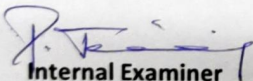
Supervisor



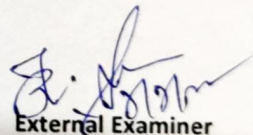
Director

Dr. R. KARTHI, MBA, M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



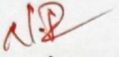
Internal Examiner



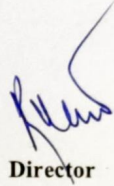
External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE'S PERCEPTION ABOUT ORGANIZATIONAL HR PRACTICES AND CULTURE IN VHR SOLUTION PVT LTD AT BANGALORE" is a bonafide work of Ms.SRI ROSHIYA, Registration number: E20BAR087, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



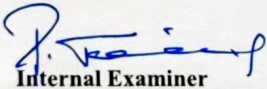
Supervisor



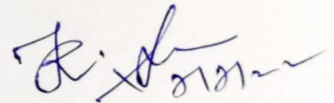
Director

Dr. R. KARTHI, MBA..M.Phil.,Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



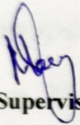
Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON LABOR WELFARE IN OIL AND NATURAL GAS CORPORATION LIMITED NERAVY AT KARAİKAL" is a bonafide work of **M.SRIDHAR**, Registration number: **E20BAR088**, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



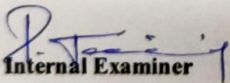
Supervisor



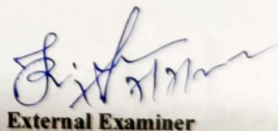
Director

Dr. R. KARTHIK, M.B.A., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07-07-2022



Internal Examiner



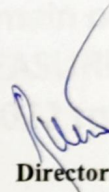
External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEE WELFARE MEASURES IN MAYAVARAM PRAGATHI OILS" is a Bonafide work of Ms. SRIMATHI, Registration number: E20BAR089, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



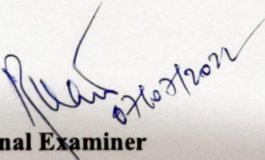
Supervisor



Director

Dr. R. KARTHI, MBA, M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022

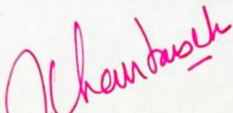


Internal Examiner

M. S. Gayathri
External Examiner 717
(DR. M. S. GAYATHRI)

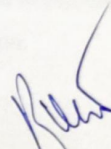
BONAFIDE CERTIFICATE

Certified that this project titled "CHALLENGES FACED BY THE MSME WHILE COVID CRISIS" is a bonafide work of Ms. R. SRIRAMPRAKASH Registration number: E20BAR090, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



Supervision

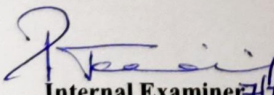
Dr. S. CHANDRASEKAR,
M.Com., MBA., M.Phil., NET(UGC), Ph.D.,
Professor
Department of Management Studies
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.



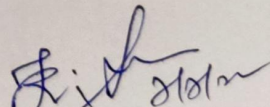
Director

Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022



Internal Examiner 7/7/22



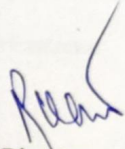
External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON JOB SATISFACTION AMONG EMPLOYEES IN PRO KNITS PVT LTD., AT TIRUPPUR, Dt" is a bonafide work of Ms. M. SRI SUBRAMANIYAN, Registration number: E20BAR091, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



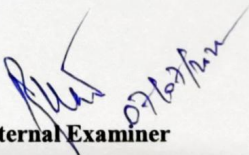
Supervisor



Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director/ MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



Internal Examiner

M. S. Gayathri
External Examiner
(Dr. M. S. Gayathri)

BONAFIDE CERTIFICATE

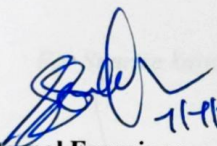
Certified that this project titled "A STUDY ON EMPLOYEES JOB SATISFACTION WITH SPECIAL REFERENCE IN SUNRISING MILLS AT TIRUPUR . is a bonafide work of MR.SUBRAMANIYAN. G Registration number: E20BARO93, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here on does not from part of any other project report or dissertation on the basic of which a degree or award was conferred on the earlier occasion on their or any other candidate.

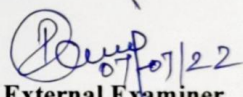

Supervisor


Director

Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voice examination held on 07-07-22

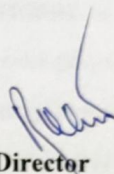

Internal Examiner


External Examiner
[R. Gowri]

BONAFIDE CERTIFICATE

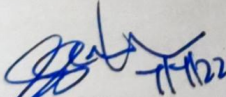
Certified that this project titled "A STUDY ON PERFORMANCE APPRAISAL IN HIGH Q SOLUTION PVT LTD AT THANJAVUR" is a bonafide work of Ms.S.SUVETHA, Registration number: E20BAR094, who carried out the research under my supervision. Certified Further, that to the best of my knowledge the work reported herein does not form part of any other Project report or dissertation on the basis of which a degree or award was conferred on the earlier Occasion on their or any other candidate.

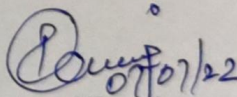

Supervisor


Director

Dr. R. KARTHI, MBA, M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07.07.2022


Internal Examiner


External Examiner
[R. GOURI]

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY OF EMPLOYEE RELATIONSHIP MANAGEMENT AT ITEL COMPUTERS BUSINESS SOLUTIONS IN THIRUVARUR" is a bonafide work of Miss. B. SWETHA, Registration Number: E20BAR095, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



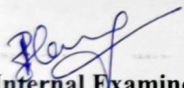
Supervisor



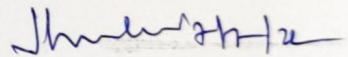
Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



Internal Examiner



External Examiner

BONAFIDECERTIFICATE

Certified that this project titled "A STUDY ON TRAINING AND DEVELOPMENT IN AMIRTHAM INDUSTRIES AT THANJAVUR" is a bonafide work of Mr. THANUSHU.L, Registration number: E20BAR096, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



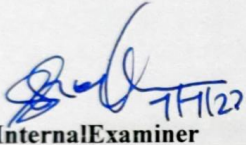
Supervisor



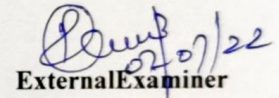
Director

Dr. R. KARTHI, MBA, M Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Vivavoce examination held on 07/07/2022



Internal Examiner



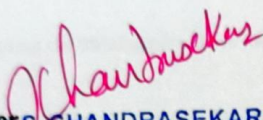
External Examiner

[R. Gowri]

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EFFECTIVENESS OF E-RECRUITMENT AND SELECTION PROCESS IN VHR SOLUTIONS PRIVATE LIMITED, BANGALORE" is a bonafide work of Mr. THIRUMURUGAN T, Registration number: E20BAR097, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

Supervisor



S. CHANDRASEKAR,
M.Com., MBA., M.Phil., NET(UGC), Ph.D.,
Professor

Department of Management Studies
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.

Director



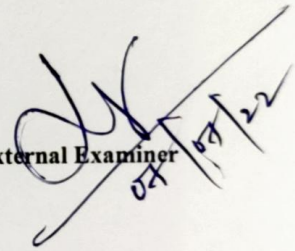
Dr. R. KARTHI, MBA., M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022



Internal Examiner


External Examiner




LAMP INDUSTRY

BONAFIDE CERTIFICATE

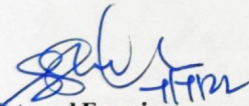
Certified that this project titled "A STUDY ON EMPLOYEE'S SATISFACTION IN KMR INDUSTRIES, AT PERUNDURAI." is a bonafide work of Ms. A. UDHAYA KUMAR, Registration number: E20BAR098, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

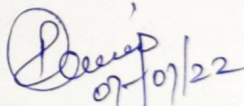

Supervisor


Director

Dr. M. KANAKESHI, M.Sc., B.E., Ph.D., P.E.
Director
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07/07/2022


Internal Examiner


External Examiner
[R. GOWRI]

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEES PERFORMANCE APPRAISAL SYSTEM IN PRISM JOHNSON LIMITED, KARAIKAL" is a bonafide work of Ms. G.VARSHINI, Registration number: E20BAR100, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



Supervisor



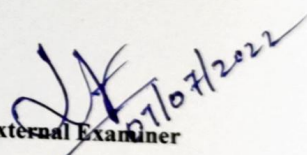
Director

Dr. R. KARTHI, MBA, M.Phil, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07-07-2022



Internal Examiner



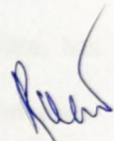
External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON ORGANIZATIONAL SWOT ANALYSIS OF HRM AT RAY TECHNOLOGY AND BUSINESS SOLUTIONS IN THIRUVARUR" is a bonafide work of Mr. N. VENGADESHWARAN, Registration Number: E20BAR101, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.



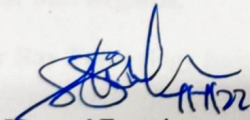
Supervisor



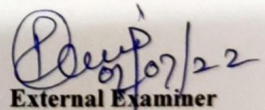
Director

Dr. R. KARTHI, MSA., M. Phil., Ph. D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 511 002.

Viva voce examination held on 07/07/2022



Internal Examiner




External Examiner

[R. Gowri]

BONAFIDE CERTIFICATE


Certified that this project titled "A STUDY ON FINANCIAL STATEMENT ANALYSIS AT AMIRTHAM INDUSTRIES , THANJAVUR " is a bonafide work of Mr. VIGNESH P, Registration number: E20BAR102, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.


Supervisor


Director

Dr. R. KARTHI, MBA, M.Phil., Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

Viva voce examination held on 07-07-2022


Internal Examiner



External Examiner

BONAFIDE CERTIFICATE

Certified that this project titled "A STUDY ON EMPLOYEES LEADERSHIP STYLES ON THE TECH ZONE PRIVATE LIMITED Chennai" is a bonafide work of Ms.S.VIGNESH Registration number: E20BAR013 who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

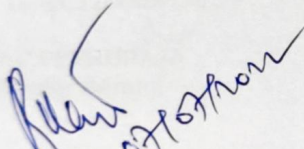


Supervisor

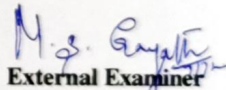


Director
Dr. R. KARTHI, MBA..M.Phil. Ph.D.
Director / MBA
E.G.S. Pillay Engineering College
Nagapattinam - 611 002

Viva voce examination held on 07.07.2022




Internal Examiner




External Examiner

BONAFIDE CERTIFICATE

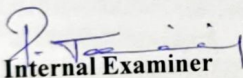
Certified that this project titled "A STUDY ON SELECTION AND RECRUITMENT FORTIS HEALTH CARE MANAGEMENT-NAGARBHAVI,BANGALORE" work of MR.GVIMALKUMAR Registration number: E20BAR105, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on the earlier occasion on their or any other candidate.

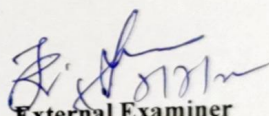

Supervisor


Director

Dr. R. KARTHI, MSA, M.PHIL, Ph.D.
Director / MBA
E.G.S. Pillay Engineering College,
Nagapetnam - 511 002.

Viva voce examination held on 07.07.2022


Internal Examiner


External Examiner



E.G.S. PILLAY ENGINEERING COLLEGE

(Autonomous)

Nagapattinam – 611 002



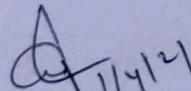
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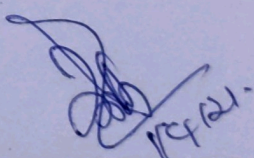
DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

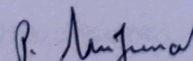
Certified that this project report titled “BUS LOCATION TRACKING AND PASSENGER COMPLAINT SYSTEM“ is the bonafide work of Ms.V.ARAVINDA (E18CAR001) who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

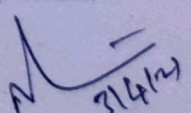

SUPERVISOR




HEAD OF THE DEPARTMENT
Dr. J. VANITHA, MCA., M.Phil., Ph.D.,
Professor / HOD
Department of MCA
E.G.S.Pillay Engineering College, (Autonomous)

Submitted to paper and Viva Examination held on 03.04.2021 Nagapattinam.


(Internal Examiner) 3/4/21


(External Examiner)



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(AUTONOMOUS)
NAGAPATTINAM – 611 002

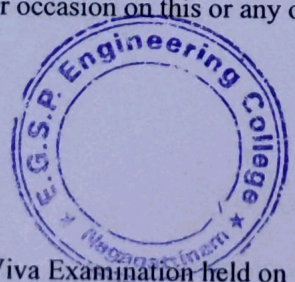
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Certified that this project report titled **“REGULARITY OF STINT DIRECTORATE”** is the bonafide work of **Ms.BRUNDHA.S (E18CAR002)** who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

[Signature]
3/4/21
SUPERVISOR



[Signature]
Dr. J. VANITHA, MCA., M.Phil., Ph.D.,
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Department of MCA
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HEAD OF THE DEPARTMENT

Submitted to Project and Viva Examination held on **03.10.4.2021**

[Signature]
3/4/21
Internal Examiner

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3/4/21
External Examiner



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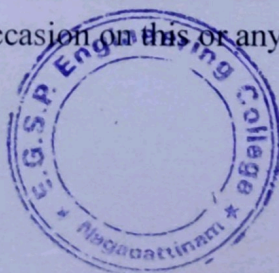
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Certified that this project report titled **“MULTI STORYED APARTMENT MANAGEMENT SYSTEM“** is the bonafide work of **MS. ELAMPARVATHI E (Reg. E18CAR003)** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

P. Kiran Kumar
SUPERVISOR



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(External Examiner)



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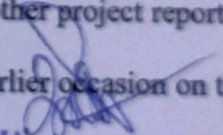
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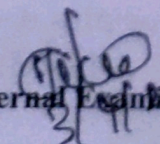
Certified that this project report titled "THE COLLECTIVE TRADE TYPE
REVOLUTION USING QUINTUPLE ECOLOGY" is the bonafide work of Ms.GEETHA.S
(E18CAR004) who carried out the project under my supervision. Certified further, that to the
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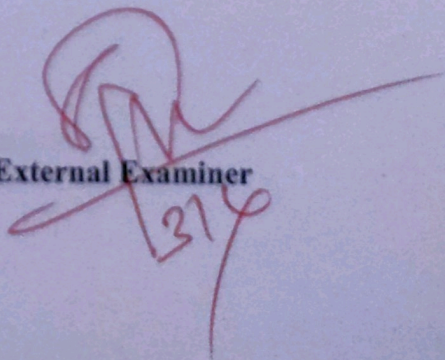

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Internal Examiner


External Examiner



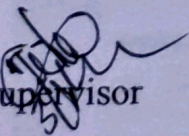
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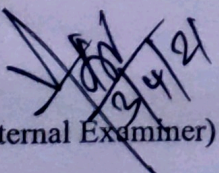
Certified that this project report titled **“PRIVACY PRESERVING VOTING SCHEME BASED ON BLOCK CHAIN TECHNOLOGY “** is the bonafide work of **JAFRIN J Reg.No.E18CAR005** who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

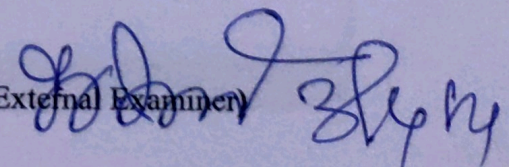

Supervisor




Head of the Department
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Certified that this project report titled "ONLINE EMPLOYEE SERVICE BOOK MANAGEMENT SYSTEM" is the bonafide work of Ms. JANISHA M (E18CAR006) who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

P. Krishnamal
Supervisor 1/4/21



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BASED ON OMICS**" is the bonafide work of Ms. **L .NANDHINI** (Reg. No. **E18CAR008**) who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

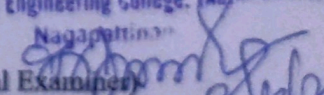

SUPERVISOR




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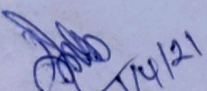


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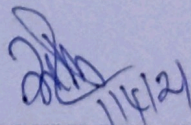
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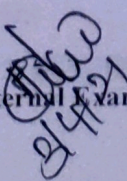
Certified that this project report titled "MENTORING SYSTEM FOR ADVANCEMENT OF INSTITUTIONAL AND EDUCATIONAL SYSTEM" is the bonafide work of Mrs. NIVEGEETHA E (E18CAR009) who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

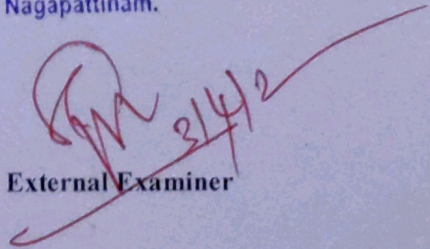

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 Internal Examiner


 External Examiner



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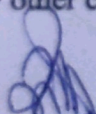
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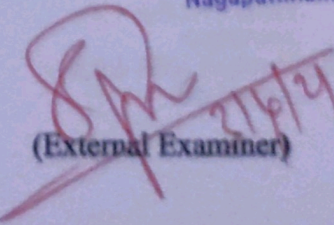

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[Handwritten Signature]

SUPERVISOR HEAD OF THE DEPARTMENT



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Dr. J. VANITHA, MCA, M Phil etc.
Professor
Department
E.G.S. Pillay Engineering
Naga...

Submitted to Project and Viva Examination held on 03/04/2021

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(Internal Examiner)

[Handwritten Signature]
(External Examiner)



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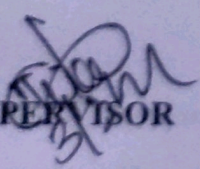


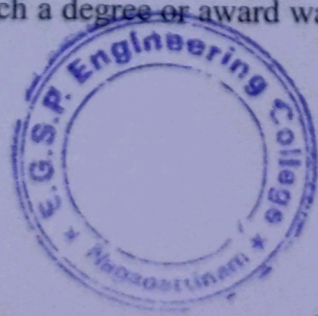
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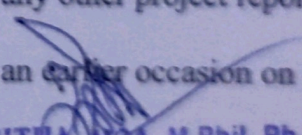
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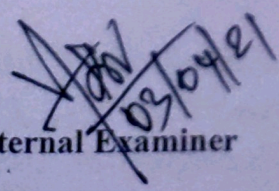
Certified that this project report titled "ASPECT BASED LOGICAL ACCESS OVER CONCEAL OUTSOURCED INPUT" is the bonafide work of Ms. SEETHA.S (E18CAR012) who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

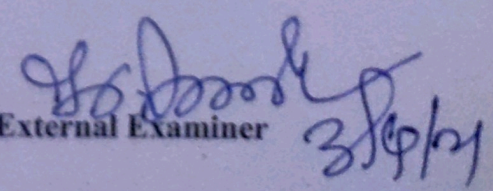

SUPERVISOR




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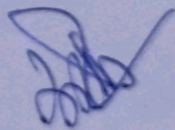
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Certified that this project report titled **"ONLINE HELPLINE PROJECT FOR AGRICULTURE PEOPLE"** "is the bonafide work of **Mr. R. SIVASAKHTIVEL (E18CAR013)** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported here in does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

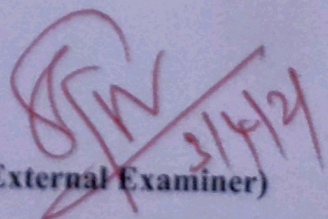

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[Signature]
11/04/21
SUPERVISOR



[Signature] 11/4/21
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[Signature]
3/4/21
Internal Examiner

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5/4/21
External Examiner