Annexure – 1 QUESTIONNAIRES

Questionnaire

The Questionnaire is for research study concerned with the recent market dynamics, support mechanism, Opportunities, competitiveness, weaknesses & challenges faced by various stakeholders, perception of stakeholders on Renewable Energy Projects, particularly grid connected ground mounted solar PV projects and onshore wind power projects to utilize optimallythe available potential of renewable energy sources and development of renewable energy projects sustainably, within the India and the stakeholders opinion on such. Survey being carried out purely for the purpose of academic research and the strict confidentiality will be maintained. The name of the organization and person will not be disclosed to any one. The conclusions of the study would be based on the information provided by you to the great extent. However, Researcher would be glad to share the research outcome provided you desire.

Please complete and submit the response at earliest. Your time and cooperation is greatly appreciated.

1. Name of the Respondent:

Thank you.

2.	E-Mail ID:	 		
	Designation:			
	Name of Organization:			
5.	State of the Respondent:			
	Total years of Experience:			
	a. Up to 2 Years	c. 5 to 10 years		
	b. 2 to 5 Years	d. More than 10 Years		
7.	Type of Organization:			
	a. Private	d. Government		
	b. Public	e. Non-Government		
	c. Joint Venture			
8.	How do you contribute to a utility	scale renewable energy pro	pject: As a (please, specify).	
	a. Manufacturers	h. Consultant	o. If others, please specify	
	b. Supplier	i. Power Purchaser		
	c. EPC Contractor	j. Independent power produ	ucer	
	d. Project Developer	k. Captive Users		
	e. Investor	I. Research Institution		
	f. Financier	m. Promoters of Renewabl	e Energy	
	g. Policy maker	n. Renewable Energy Pow	er Trader	
				Dage I

9. Please rate on scale how each one of the following stakeholders are responsible / contributor for the development of renewable energy projects (solar & wind).

Stakeholders	Strongly Agree	Agree	Don`t Know	Disagree	Strongly Disagree
Manufacturers					
Supplier					
EPC Contractor					
Project Developer					
Investor					
Financier					
Policy maker					
Consultant					
Power Purchaser					
Independent power producer					
Captive Users					
Research Institution					
Promoters of Renewable Energy					
Renewable Energy Power Trader					

- 10. In how many sectors within the Renewable Energy basket you have been Operating:
 - **a.** On -Grid Connected Solar PV Power Projects
 - **b.** Off-Grid Conneced Solar PV power Project
 - c. On Shore Wind Power Projects
 - d. Off Shore Wind Power Projects
 - e. On grid Solar Wind Hybrid
 Projects

- f. Floating Solar Power Projects
- g. Small Hydro Power Projects
- h. Bio mass projects
- i. Concentrated Solar ThermalPower Projects
- j. Geo thermal Power Projects
- k. Tidal Power Projects
- **l.** Waste to Energy
- 11. Rate on a scale regarding "potential of Solar Renewable Energy in India"

	Strongly Agree	Agree	Don`t Know	Disagree	Strongly Disagree
India has a tremendous potential of solar radiation					
Different state/area have different solar energy					
potential					
There is tremendous scope of solar Power project					
development					
The target of 100 GW of Solar power project will					
be achieved upto 2022					
Installation of solar power projects are growing at					
a speed as desired which may fully utilized the					
available solar resources potential of 750 GW					

12. Rate on a scale regarding "potential of Wind Energy in India"

	Strongly Agree	Agree	Don't Know	Disagree	Strongly Disagree
India has a tremendous potential of wind energy					
Different state/area have different wind energy potential					
There is tremendous scope of wind Power project					
development					
The target of 60 GW of wind power project will					
be achieved upto 2022					
Installation of wind power projects are growing at					
a speed as desired which may fully utilized the					
available wind resources potential of 310 GW					

13. Rate: 1- Available more than target requirements, 2- Sufficiently Available to meet the target requirements 3- available less than target requirements, 4- Not available at all 5- Not known

What do you say about the available RE potential	1	2	2	1	5
for achievement of Govt. target.	1	2	3	4	3

14. Rate: 1-Very Important, 2-Important, 3-Neutral 4- Less important, 5- Not at all Important

Rate your opinion on scale to support for the					
achievement of government target of Renewable	1	2	3	4	5
Energy Projects.					

15. How important for your organization to support for the achievement of government target of following Renewable Energy Projects. (please rate by tick mark)

	Very high (80% or more)	High (50% - 80%)	Moderate: (50% - 20%)	Low (less than 20%)	Not significant
Solar PV Power projects					
Wind Power Project					

16. Considering Renewable Energy Projects sector, how significant it for your organisation to install renewable energy projects in order to utilize optimally the available potential of renewable energy source in the following sectors. (please rate by tick mark)

	Very high (80% or more)	High (50% - 80%)	Moderate: (50% - 20%)	Low (less than 20%)	Not significant
Solar PV Power projects					
Wind Power Project					

17. Rate the following factors influencing the decision of installation of renewable energy (Solar & Wind) projects

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Payment security mechanism					
Centre level policy supports					
State level policy support					
Easy of procedure for RE project					
Land policies					
Low cost funding from Government					
institutions					
Low cost funding from Private Banks and					
Institutions					
Policy for disposal of solar panels					
Availability of facility for disposal of solar					
panel					
Development of Solar Parks at different					
states					
Waiver of transmission & wheeling charges					
Renewable Purchase Obligation (RPO)					
Exemption of custom duties					
Imposition of safeguard duty					
Availability of renewable energy					
resources					
Availability of off takers					
Availability of evacuation facility					
Market competition					
Government target for RE capacity					
Supply chain network					

18. Rate the factors restricting the installation of renewable energy projects

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Government target					
Policy implementation					
Renewable Purchase obligation					
Policy of land for solar & wind Project					
Transmission infrastructure facility					
Power purchase issues					
Market competition					
Custom & safeguard duty					
Non-Availability of lands					
Inadequate material supply					
Awareness & skill manpower					

19. Rate the following constraints for Rene	ewable Energy project	capacity development	with respect
to available RE potential			

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Acquisition					
State Development Energy Authority					
registration, Approval and inspection of					
project					
Supply chain issues					
Transmission infrastructure availability &					
Evacuation facility					
Taxes and duties like Custom duty, safeguard					
duty, variable taxes					
DISCOM Payment issues					
Financing issues					
Non availability of solar parks					
Off-takers issue					
General issues					

20. how far the existing policies and supports helps in developing and achieving the government target particularly solar PV target of 100GW & wind target of 60GW respectively.

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
100 GW Solar PV Projects					
60 GW Wind Power Projects					

21. Do you agree that development of renewable energy projects creates opportunities of green employment to boost the India's developing economy

	YES	NO
Solar PV Power Projects		
Wind Power Projects		

22. If yes, tick mark the approximate nos of green employment generation upto life cycle of utility scale renewable power projects capacity addition

	Less than 10 job-year per MW	11 to 15 jobyear per MW	16 to 20 jobyear per MW	21 to 25 jobyear per MW	26 to 30 jobyear per MW	More than 31 job-year per MW
Solar PV Power Projects						
Wind Power Projects						

23. To what extent the following policies help to promote the government target for development of Renewable (Solar & Wind) energy projects.

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Accelerated Depreciation					
Feed in Tariff					
Preferential Tariffs					
Generation Based Incentives (GBI)					
Exemption from custom duty					
Renewable Energy Certificates					
Renewable Generation Obligation					
No inter-state transmission charges					
Viability Gap Funding					
Central Financial Assistance					
Imposition of Safeguard duty					
Budgetary support for R&D and					
demonstration of technology					
Income tax holidays					
Competitive bidding process					
Foreign Direct Investment					
Funding from government institutions for					
financing term loan					
Introduction/revision of solar policy					
Enforcement of Renewable Purchase					
Obligation					
Hybrid solar wind policy					
Policy for revamping of existing solar-wind					
projects					
Payment Security mechanism					
Off-takers- Power Purchase Agreement					

24. To what extent the following as the opportunity for the development of Renewable Energy Projects

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Government mandate for target					
Renewable Energy Resource Potential					
Renewable Purchase Obligation (RPO)					
Policy & Regulatory supports					
Waival of inter-state transmission charges					
Domestic manufacturing facility					
Duty free Supply chain from other countries		•			

25. Please opine what percentage of RPO is to	o be enforced for achievement of government targ	get of
175 GW by 2022.		

10 to 12%	13 to 15%	16 to 18%	19 to 21%	21 to 24%	More than 25%
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26. To what extent the following challenges / barriers affect for the developments of utility scale renewable energy projects

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Technology Development					
Supply chain issue					
Taxes and duties					
General Infrastructure development					
Geographical and ecological barriers					
Lack of knowledge and awareness of technologies barriers					
Financial and economical barriers					
Policy & regulatory barriers					
Market related barriers say lack of business model, Lack of defined market					
Initial investment / upfront cost					
Transmission infrastructures development					
Land acquisition issues		•			
Political issues					
Forecasting & Scheduling / DSM					

27. Is there any difference for utility scale renewable energy project developments at various regions in terms of following factors?

	Very large Difference	Large Difference	No difference at all	Less Difference	Very less Difference
Regional RE resources / potential					
State Policy					
State Regulations					
Regional Challenges					
Regional Barrier					
Ease of doing business					
Payment Security					
Awareness & Capacity building					
Forecasting & scheduling/DSM penalty					

28. To what extent the following govt policies are supportive for investment in utility scale renewable energy projects.

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Amendment in tariff policy 2015					
(Reduction in tariff cost)					
Waiver of transmission charges					
(Promoting grid connectivity)					
Financial support from government					
institutions					
Defined Renewable Purchase obligation					
(RPO)					
Promoting Research & Development					
Promoting expansion of market					
Repowering policy					
Import taxes, Custom duties, Safeguard					
duties					
Financial and Promotional Initiatives		·			
Promoting supply chain from other countries					
Removal of feed in tariff					
Introduction of competitive bidding					

29. Which	policy	you	propose	for	supporting	the	investment	in	utility	scale	renewable	energy
projects	S											

- a. Payment Security mechanism
- **b.** Land Acquisition policy
- **c.** Infrastructure development policy
- d. Policy other regulatory and support mechanism
- e. Establishment of Green corridor
- f. Foreign Direct Investment (FDI) relaxed policy

- g. Establish important promotional policy
- **h.** Competitive bidding process
- i. Connectivity at Project site
- Solar park policy j.

Κ.	If others,	

30. To What extent the following policies & regulatory level barrier affect the development of utility scale renewable energy projects to utilize available potential of RE potential

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Policy barriers					
Regulatory barriers					
Support mechanism barriers					
Political barriers					
Environment barriers					

Land policy barriers			
Power purchase policy			
Institutional & Administrative barrier			
Public acceptance barrier			
International Trade barrier			

31. To what extent the functional and operational level barrier & challenges affect the development of utility scale renewable energy projects to utilize available potential of RE potential

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Financial challenges					
Evacuation issues					
Costing barriers					
Competition barriers					
Technical barriers					
Infrastructure barriers					
Investment barriers					
Awareness & capacity development barriers					
Sale of power barriers					
Forecasting & scheduling barrier					
Land acquisition barrier					
Deviation Schedule Mechanism (DSM)					
penalty barrier					
Supply chain barrier					

32. What are the current challenges / barriers in installing renewable energy projects for your organization?

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Distribution & transmission facilities					
Frequent changes in state policies					
Difficulty in funding project					
Financing cost					
Reduced tariff					
Variable output					
Initial investment					
Market Competition					
Cost Competition					
International trade issues					
Competitive bidding process					
Local Taxes & duties					
Safe guard & anti dumping duties					
Domestic Content Requirement (DCR)					

33. As per your	perception,	pl rate	the	following	general	barriers	that	affect	developmen	of	utility
scale renewa	able energy p	orojects	botł	n solar & v	wind						

	Strongly Agree	Agree	Neutral	Disagree	Strongly disagree
Frequent changes in state level regulations					
Difficulty in finding buyers for generated					
electricity					
Investment cost					
Operation & Maintenance					
Seasonal availability of renewable resource					
Distribution companies not willing to buy					
beyond Renewable Power Obligation (RPO)					
Process for obtaining Renewable Energy					
Certification (REC)					
Wheeling & supervision charges.					
Procedure for permission, registration					
Etc					
Procedure for connectivity					

34.	. What are the procedural issues encountered in development of utility scale renewable energy
	projects in India?

35. Which range of project costing is viable for the utility scale renewable energy projects capacity in MW AC in India?

	6 to 5.5	5.5 to 5	5 to 4.5	4.5 to 4	4 to 3.5	3.5 to 3
	Cr	Cr	Cr	Cr	Cr	Cr
	per MW					
Grid connected Solar PV power						
projects						
Onshore Wind power						
projects						

36. How sensitive the market competition for the development of utility scale renewable energy projects.

	Extremely High Sensitive	Highly Sensitive	Neutral	Less Sensitive	Not at all sensitive
Utility Scale Solar Power Project					
Utility Scale Wind Power Project					

37. How	sensitive	the	cost	competition	for	the	development	of	utility	scale	renewable	energy
proje	ets.											

	Extremely High Sensitive	Highly Sensitive	Neutral	Less Sensitive	Not at all sensitive
Utility Scale Solar Power Project					
Utility Scale Wind Power Project					

38. What is your perception regarding the initial cost of the setting up of renewable energy projects

	Very High initial Cost	High initial Cost	Normal initial Cost	Low initial Cost	Very low initial Cost
Utility scale solar PV power projects					
Utility scale wind power projects					

39. What do you think about the Operation & maintenance cost of the renewable energy projects

	Very High Cost	High Cost	Normal Cost	Low Cost	Very low Cost
utility scale solar PV power projects					
Utility scale wind power projects					

- **40.** Which kind of assistance/support expected from the government for development of renewable energy projects in India?
 - a. Financial Assistance
 - b. Supportive Policy assistance
 - c. Purchase of power assistance
 - d. regulatory assistance
 - e. Capital subsidy assistance
 - f. Land acquisition support
 - **g.** Transmission infrastructure support
 - **h.** Assured connectivity at all locations

- i. Procedural assistance
- **j.** Right of ways support
- k. supply chain assistance
- **l.** Custom duties & taxes waival
- **m.** Anti dumping/safeguard duty waival
- n. Waival of inter-state transmission charges
- o. If others, ____

To what extent the following points contr	ibute to mak	ke utility	scale renew	able energ	y (solar
wind power) project more affordable and v		•			
	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at
Government should provide more subsidy					
Invest more in R&D for technology					
development					
Promote domestic manufacturing capacity					
Implementation of policies					
Secured payment mechanism					
Power Purchase Agreement with Off-					
takers/DISCOM					
Waival of inter-state transmission charges					
Facilitate international trade					
Facilitate supply chain management					
Must Run status to RE power					
Must Run status to RE power					
Waival of taxes & duties					
Waival of taxes & duties Awareness and capacity building	n of the mer	itioned ris	sks when it	comes to	investme
Waival of taxes & duties Awareness and capacity building				comes to	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of eacl in utility scale renewable energy projects s	ay solar/win	d power p	projects	Less	Not
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of each in utility scale renewable energy projects s Regulatory Risk	ay solar/win	d power p	projects	Less	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of eacl in utility scale renewable energy projects s	ay solar/win	d power p	projects	Less	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of each in utility scale renewable energy projects s Regulatory Risk Construction Risk say TIme over run & cost over run	ay solar/win	d power p	projects	Less	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of each in utility scale renewable energy projects s Regulatory Risk Construction Risk say TIme over run & cost over run Counter Party Risk say Construction	ay solar/win	d power p	projects	Less	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of each in utility scale renewable energy projects s Regulatory Risk Construction Risk say TIme over run & cost over run	ay solar/win	d power p	projects	Less	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of each in utility scale renewable energy projects s Regulatory Risk Construction Risk say TIme over run & cost over run Counter Party Risk say Construction Contractor, O&M Contractor	ay solar/win	d power p	projects	Less	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of each in utility scale renewable energy projects s Regulatory Risk Construction Risk say TIme over run & cost over run Counter Party Risk say Construction Contractor, O&M Contractor Financial Risk Investment Risk	ay solar/win	d power p	projects	Less	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of each in utility scale renewable energy projects s Regulatory Risk Construction Risk say TIme over run & cost over run Counter Party Risk say Construction Contractor, O&M Contractor Financial Risk Investment Risk Power Off Taker Risk	ay solar/win	d power p	projects	Less	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of each in utility scale renewable energy projects s Regulatory Risk Construction Risk say TIme over run & cost over run Counter Party Risk say Construction Contractor, O&M Contractor Financial Risk Investment Risk Power Off Taker Risk Resource assessment Risk	ay solar/win	d power p	projects	Less	Not critical
Waival of taxes & duties Awareness and capacity building How would you rate the criticality of each in utility scale renewable energy projects s Regulatory Risk Construction Risk say TIme over run & cost over run Counter Party Risk say Construction Contractor, O&M Contractor Financial Risk Investment Risk Power Off Taker Risk	ay solar/win	d power p	projects	Less	Not critical

41. Which kind of subsidy/incentives available at present from the government for development of

f. Low cost loans

g. supply chain support

h. custom duty waival

i. Anti dumping waival

j. Waival of inter-state transmission

renewable energy projects in the India?

b. Support in the form of power

c. Support in the form of payment

purchase agreement

a. Green Certificate

mechanism

44. To what extent the following motivation support behind the decision	on investing in utility scale
renewable energy (solar & wind power) project?	

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Renewable power are the future					
Returns on generations					
Congenial policies in renewable energy at					
state level					
High tariff rates					
Provision of Renewable Energy					
Certification					
Government targets for renewable energy					
development					
Lower operating cost					
Secured payment mechanism					
Availability of renewable energy resources					
Open access / third party sale of power					

45. So far as grid connectivity for evacuation of the generated RE power is concern, pl rate to what extent the following points affect the evacuation issues related with.

	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all
Inadequate transmission infrastructure					
Mismatch between the available corridor and					
necessary demand centres					
Procedure for connectivity permission					
High cost of establishment of transmission					
lines					
Right of Way (RoW) issues					
Transmission system Supervision charges					
Wheeling & transmission charges					

46. Rate: 1- more than sufficient 2- Sufficient 3- Less sufficient 4- Very less sufficient 5- Not sufficient

As per your experience, pl tick that the					
manufacturing capacity in India for					
major/main component of the utility scale	1	2	3	4	5
renewable power projects are adequate to	1	2	3	-	3
meet the increasing demand/ target set by					
government of India.					

				•	the value
chain, logistic, delivery of the materials at p	project site				
	Very important	important	Less important	Very less important	Not important
Utility scale solar power project					
Utility scale Wind power project					
18. Rate: 1- very high cost 2- High cost 3- Equa	al cost 4- L	ow cost 5-	Very low	cost	
Rate the cost comparison for procurement of materials from India & abroad.	1	2	3	4	5
19. From which country will your organization	on prefer to	o import i	nain comp	onents for	following
renewable power projects?	1	1	1		
Solar Power Projects					
Wind Power Projects					
value chain, logistic, delivery schedule for	Highly	Effective	Less	Very less	Not
	Highly	Effective	Less	Very less	Not
Trette 1 1	Effective	Litective	Effective	effective	effective
Utility scale solar power project					
Utility scale Wind power project					
11 Which of the initiatives as non your enini					
51. Which of the initiatives, as per your opinion	on shall be	implemen	ted for ag	gressive de	velopmen
		•	•		•
of renewable energy projects to utilize option		vailable re	newable er	nergy resour	rces?
of renewable energy projects to utilize option a. Government mandated approach		vailable re f. Ti	newable er me based i	nergy resour	rces?
of renewable energy projects to utilize option a. Government mandated approach b. Top down approach		vailable res f. Ti g. Lo	newable en me based i	nergy resouncentive ap	rces?
 a. Government mandated approach b. Top down approach c. Outcome based incentive 		vailable res f. Ti g. Lo h. M	newable en me based i ow cost lon arket enab	nergy resount ncentive ap g term loant led research	rces? proach approach
of renewable energy projects to utilize option a. Government mandated approach b. Top down approach		vailable res f. Ti g. Lo h. M i. Av	newable en me based i ow cost lon arket enab wareness &	nergy resouncentive ap	rces? proach approach
 a. Government mandated approach b. Top down approach c. Outcome based incentive approach d. Incentive for domestic 		vailable results f. Ti g. Lo h. M i. Av ap	newable en me based i ow cost lon arket enab wareness & proach	nergy resount ncentive apung term loan led research c capacity b	rces? proach approach
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 a. Government mandated approach b. Top down approach c. Outcome based incentive approach d. Incentive for domestic manufacturing capacity 		vailable results f. Ti g. Lo h. M i. Av ap j. Bo	me based in the ba	nergy resount ncentive apung term loan led research c capacity b	rces? proach approach uilding
 a. Government mandated approach b. Top down approach c. Outcome based incentive approach d. Incentive for domestic manufacturing capacity e. Incentive for technology 	nally the av	vailable resolvation f. Ti g. Lo h. M i. Av ap j. Bo k. If	me based in the ba	nergy resount ncentive apung term loant led research capacity be pproach	rces? proach approach uilding
 a. Government mandated approach b. Top down approach c. Outcome based incentive approach d. Incentive for domestic manufacturing capacity e. Incentive for technology development 	nally the av	f. Ti g. Lo h. M i. Av ap j. Bo k. If	me based in the ba	nergy resount ncentive apung term loant led research capacity be pproach	rces? proach approach uilding
 a. Government mandated approach b. Top down approach c. Outcome based incentive approach d. Incentive for domestic manufacturing capacity e. Incentive for technology development 52. What would you suggest to utilize optimally 	nally the av	f. Ti g. Lo h. M i. Av ap j. Bo k. If	me based in the ba	nergy resount ncentive apung term loant led research capacity be pproach	rces? proach approach uilding
 a. Government mandated approach b. Top down approach c. Outcome based incentive approach d. Incentive for domestic manufacturing capacity e. Incentive for technology development 52. What would you suggest to utilize optimally 	nally the av	f. Ti g. Lo h. M i. Av ap j. Bo k. If	me based in the ba	nergy resount ncentive apung term loant led research capacity be pproach	rces? proach approach uilding
 a. Government mandated approach b. Top down approach c. Outcome based incentive approach d. Incentive for domestic manufacturing capacity e. Incentive for technology development 52. What would you suggest to utilize optimally 	nally the av	f. Ti g. Lo h. M i. Av ap j. Bo k. If	me based in the ba	nergy resount ncentive apung term loant led research capacity be pproach	rces? proach approach uilding

Annexure – 2 RESEARCH PUBLICATION



THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

PUBLICATION CERTIFICATE

Name of Ph.D. Supervisor Dr.UMESH RAJNIKANT DANGARWALA

Published Articles/Papers in Journals

Sr No.	Author(s)	Paper Title	Journal Name & ISSN & Volume No.	Published DOI Year	Index in Scopus/UGC CARE/Clarivate	Document Submitted?
1	Mr. Dignesh Panchasara and Dr. Umesh Dangarwala	SERVICE QUALITY AND SATISFACTION OF STUDENTS: A STUDY OF SELECTED SELF FINANCE COLLEGES IN ANAND	Journal Name: Towards Excellence UGC-HUMAN RESOURCE DEVELOPMENT CENTRE Gujarat University, Ahmedabad-380009, Gujarat, India, ISSN: 0974035X, Volume No.: 13	1-6-2021	In Scopus: Yes, In UGC CARE: Yes, In Clarivate: Yes	Submitted
2	Dr. Umesh R. Dangarwala & Mr. Kahar Ramnarayan	A REALISTIC GLIMPSE INTO INDIA'S ENERGY SECURITY IN FORESEEABLE FUTURE IN VIEW OF RENEWABLE ALTERNATIVES	Journal Name: Research review: international journal of multidisciplinary, ISSN: 2455-3085	1-3-2019	In Scopus: Yes, In UGC CARE: No, In Clarivate: No	Submitted
3	Dr. Umesh R. Dangarwala & Mr. Dignesh S. Panchasara	A study of service quality dimensions and satisfaction of selected students of universities in vadodara	Journal Name: International journal of research, ISSN: 2236-6124	1-3-2019	In Scopus: Yes, In UGC CARE: No, In Clarivate: No	Submitted
4	Dr. Umesh R. Dangarwala & Ms. Jaspreet B. Minhas	Purchase Behaviour of Consumers Durable Goods (A Case Study of Selected Union Territories-Daman & DNH)	Journal Name: RESEARCH REVIEW International Journal of Multidisciplinary, ISSN: 2455-3085, Volume No.: 3	1-5-2018	In Scopus: Yes, In UGC CARE: No, In Clarivate: No	Not Sumbitted
5	Dr. Umesh R. Dangarwala & Ms. Krupa J. Rao	Online Education and E-Learning Scenario in India	Journal Name: RESEARCH REVIEW International Journal of Multidisciplinary, ISSN: 2455-3085, Volume No.: 5	1-5-2018	In Scopus: Yes, In UGC CARE: No, In Clarivate: No	Not Sumbitted

6	Dr. Umesh R. Dangarwala & Ms. Krupa J. Rao	Literature Review: Awareness about the Social networking sites amongst various generations	Journal Name: International Journal of Novel Research and Development, ISSN: 2456-4184, Volume No.: 3	1-3-2018	In Scopus: Yes, In UGC CARE: No, In Clarivate: No	Not Sumbitted
7	Dr. Umesh R. Dangarwala & Ms. Krupa J. Rao	A Literature Review : Niche marketing in India	Journal Name: International Journal of Creative Research Thoughts, ISSN: 2320-2882, Volume No.: 6	1-3-2018	In Scopus: Yes, In UGC CARE: No, In Clarivate: No	Not Sumbitted
8	Dr. Umesh R. Dangarwala & Mr. Dignesh S. Panchasara	Impact of Celebrity Brand Endorsements on Brand Image and Product Purchases of the Soft Drink Products	Journal Name: MANAGEMENT GURU, ISSN: 2319-2429, Volume No.: 5	1-1-2018	In Scopus: Yes, In UGC CARE: No, In Clarivate: No	Not Sumbitted

Paper Presented in Conference/Symposia/Seminar

Sr No.	Authors	Paper Title	Paper Theme	Organising Body	Date of Publication	Documents Submitted?
1	Dr. Umesh R. Dangarwala	Societal changes v/s Sustainable Business Development	Sustainable development in Business along with Societal Changes	R. J. Tibrewal Commerce College and Universities Commerce & Management Teachers' Association	10-3-2019	Not Submitted
2	Dr. Umesh R. Dangarwala	Evaluation of Privatization of Higher Education	Higher Education: Current Scenario and Direction	Achala Education Foundation Trust	21-1-2018	Not Submitted
3	Dr. Umesh R. Dangarwala	Quality Techniques & Higher Education System in India	Higher Education and New Development	Swami Sahajanand College of Commerce & Management	18-12-2017	Not Submitted
4	Dr. Umesh R. Dangarwala	Liberalization of Insurance Sector: New Dimensions	70th All India Commerce Conference of ICA	Indian Commerce Association	12-10-2017	Not Submitted
5	Dr. Umesh R. Dangarwala	Skills Development & Its Different Aspects	Vocational Studies: Skill, Entrepreneurship, Employability and Labour Market	C P Patel & F H Sha Commerce College, Anand	20-3-2017	Not Submitted
6	Dr. Umesh R. Dangarwala	Contribution of Value education & Human Development in India	Human development: Issues and Challenges in India	G. H. PATEL POSTGRADUATION INSTITUTE OF BUSINESS MANAGEMENT (MBA PROGRAMME), SARDAR PATEL UNIVERSITY	21-1-2017	Not Submitted

I Undersign, agree that all submitted information in above format is true as per my knowledge and belief.

Annexure – 3 PLAGIARISM REPORT

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