




S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

Name	Dr. Shiv Raj Singh (SARASWATI -SAMMAN-2019 AWARDEE)				<p>Photograph</p> 
Designation	Professor & Head				
Qualifications	M.Sc., M. Phil., Ph. D. NET-JRF-SRF of CSIR, SLET				
Address (Campus)	Department of Mathematics CCS UNIVERSITY MEERUT, Uttar Pradesh, INDIA 250004				
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S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

Educational Qualifications

Subject	Institution	Details
Ph.D.	C.C.S. University, Meerut	Development of some inventory models for deteriorating products
M.Phil.	C.C.S. University, Meerut	Mathematics
M. Sc.	Meerut University, Meerut	Mathematics

Career Profile

Organization/Institution	Designation	Duration	Role
1. Govt. PG College, Jaisalmer	Lecturer	30-11-1995 to 18-07-1997	Teaching
2. Govt. PG College, Alwar	Lecturer	19-07-1997 to 20-12-1999	Teaching
3. D.N. College, Meerut, U.P	Reader, Associate Professor	21-12-1999 to 22-02-2015	Teaching, Research and Administration
4. CCS UNIVERSITY MEERUT, UP, INDIA	Professor	23-02-2015 to till date	Teaching, Research and Administration

Research Interests / Specialization:

Inventory Modelling, Environment Modelling, Supply Chain, Reverse Logistics, Vedic Maths

Teaching Experience (Subject / Courses Taught):

Operations Research, Optimization Techniques, Differential Equations, Numerical Analysis etc.



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

<p style="color: purple; font-weight: bold; margin: 0;">Honors ,Awards And Recognition</p>	<ul style="list-style-type: none"> <li style="color: red; font-weight: bold;">Saraswati Award, Highest award by the Uttar Pradesh state government for outstanding contribution in the higher education in the University category. Felicitated on the Teachers day 2019 by the Head of the Uttar Pradesh state and Head of the government of Uttar Pradesh state. Golden Jubilee award by NASI, Excellent Teacher Award. Best Research paper award four times One Research paper has been selected as a winning paper in the prestigious Emerald Citations of Excellence for 2015(http://www.emeraldgrouppublishing.com/authors/literati/citations/awards.htm) Having Maximum number of citation in the prestigious review paper “Literature review of deteriorating inventory models by key topics from 2012 to 2015” “International Journal of Production Economics”, Volume 182, December 2016, Pages 86-112, http://www.sciencedirect.com/science/article/pii/S0925527316302122 		
Research Supervision	Awarded	Submitted	Working
Ph.D.	18		7
M. Phil.	13		



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

Publications, In Indexed / Peer Reviewed Journals, Since 2009 Research Papers

S.No.	Year	Title	Journal	Vol Issue	Pages
1.	2009	An inventory model with quadratic demand rate for decaying items with trade credits and inflation	Journal of Interdisciplinary Mathematics SCOPUS	Volume 12, Issue 3, 2009,	Pages 331-343
2.	2009	On reserve money for an EOQ model in an inflationary environment under supplier credits	OPSEARCH Springer Verlag SCOPUS	Volume 46, Issue 3	303-320
3.	2009	Understanding supplier credits in an inflationary environment when reserve money is available	International Journal of Operational Research SCOPUS	6(4)	459-474
4.	2009	An EOQ model for perishable items with power demand and partial backlogging	International Journal of Operations and Quantitative Management SCOPUS	15(1),	pp. 65-72
5.	2010	An Inventory Model for Deteriorating Items with Shortages and Stock-Dependent Demand under Inflation for Two-Shops under One Management	OPSEARCH Springer Verlag SCOPUS	47 (4)	311-329
6.	2010	Supply Chain Model with Stochastic Lead Time under Imprecise Partially Backlogging and Fuzzy Ramp-Type Demand for Expiring Items	International Journal of Operational Research, Inderscience United Kingdom SCOPUS	8 (4)	511-522
7.	2010	Supply Chain Models with Imperfect Production Process and Volume Flexibility under Inflation	The IUP Journal of Supply Chain Management,	7 (1)	61-76
8.	2010	A Stock Dependent Economic Order Quantity Model for Perishable Items Under Inflationary Conditions	American Journal of Economics and Business Administration SCOPUS	2 (3)	317-322



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

9.	2011	A Deterministic Two Warehouse Inventory Model for Deteriorating Items with Stock-Dependent Demand and Shortages under the Conditions of Permissible Delay	International Journal of Mathematical Modeling and Numerical Optimization, SCOPUS , Switzerland	2 (4)	357-375
10.	2011	A Fuzzy Multi-Item Production Model with Reliability and Flexibility under Limited Storage Capacity with Deterioration Via Geometric Programming	International Journal of Mathematics in Operational Research, SCOPUS , Switzerland	3 (1)	78-98
11.	2011	Two-Warehouse Fuzzy Inventory Model Under the Conditions of Permissible Delay in Payments	International Journal of Operational Research, SCOPUS , United Kingdom	11 (1)	78-99
12.	2011	Optimisation of Fuzzy Inventory Model for Differential Items	International Journal of Operational Research SCOPUS , United Kingdom	11 (3)	290-315
13.	2011	Imperfect Production Process with Exponential Demand Rate, Weibull Deterioration under Inflation	International Journal of Operational Research SCOPUS : United Kingdom	12 (4)	430-445
14.	2011	Inflationary Implications on an Inventory with Expiration Date, Capital Constraint and Uncertain Lead Time in a Multi-Echelon Supply Chain	International Journal of Procurement Management SCOPUS , Switzerland	4 (4)	419-432
15.	2011	Production model with Selling Price dependent demand and Partial Backlogging under inflation	International Journal of Mathematical Modelling & Computations	1 (1)	1-7
16.	2011	A Soft Computing Based Inventory Model with Deterioration and Price Dependent Demand	International Journal of Computer Applications, ISSN: 0975-8887	36 (4)	10-17
17.	2011	Two Warehouse Multi Items Integrated Model with Inflation Induced Demand under the Credit Period and Shortages	International Journal of Inventory Control & Management	1 (1)	1-16
18.	2011	An Integrated Supply Chain Model for the Perishable Items with Fuzzy Production Rate and Fuzzy Demand Rate	Yugoslav Journal of Operations Research SCOPUS . SERBIA University of Belgrade	21 (1)	47-64
19.	2011	An Integrated Vendor-Buyer Model with Uncertain Lead Time, Life Time under Inflation and Variable Holding Cost	International Journal of Operations Research and Information Systems	2 (4)	87-98



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

20.	2011	Optimal Replenishment Policy for Ameliorating Item with Shortages under Inflation and Time Value of Money using Genetic Algorithm	International Journal of Computer Applications, ISSN: 0975-8887	27(1)	5-17
21.	2012	Inventory Model of Deteriorating Items with Two-Warehouse and Stock Dependent Demand Using Genetic Algorithm in Fuzzy Environment	Yugoslav Journal of Operations Research, SCOPUS , SERBIA , University of Belgrade	22 (1)	51-78
22.	2012	An Economic Production Lot-Size (EPLS) Model with Rework and Flexibility under Allowable Shortages	International Journal of Procurement Management, SCOPUS : Switzerland	5 (1)	104-122
23.	2012	Effect of Demand Boosting Policy on Optimal Inventory Policy with Backorder in Fuzzy Environment under the Effect of Learning	International Journal of Procurement Management SCOPUS : Switzerland	5 (2)	178-201
24.	2012	A Warehouse Imperfect Fuzzified Production Model with Shortages Under Inflationary Conditions	Advances in Decision Sciences (H Index - 9) Hindawi , Egypt SCOPUS http://www.hindawi.com/journals/ads/2012/638060/	Article ID 638060	16 pages
25.	2012	A Two-Warehouse Production Model with Quality Consideration	Procedia Engineering, SCOPUS : Elsevier BV , Netherlands (H Index - 40)	38	3242-3259
26.	2012	An Optimal Returned Policy for a Reverse Logistics Inventory Model with Backorders	Advances in Decision Sciences, Hindawi Egypt , SCOPUS http://www.hindawi.com/journals/ads/2012/386598/	Article ID 386598	21 pages
27.	2012	An Inventory Model with Time-Dependent Demand and Limited Storage Facility under Inflation	Advances in Operations Research, Hindawi , USA , SCOPUS http://www.hindawi.com/journals/aor/2012/321471/	Article ID 321471	17 pages
28.	2012	Integrated Supply Chain Model for Perishable Items with Trade Credit Policy under Imprecise Environment	International Journal of Computer Applications, ISSN: 0975-8887	48 (20)	41-45
29.	2012	Effects of Learning on Optimal Lot Size and Profit in Fuzzy Environment	International Journal of Operational and Quantitative	18 (2),	145-158



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

			Management, SCOPUS USA		
30.	2012	An EPQ Model with Power-Form Stock Dependent Demand under Inflationary Environment using Genetic Algorithm	International Journal of Computer Applications, ISSN: 0975-8887	48 (15)	25-30
31.	2012	Effect of Demand Boosting Policy on Optimal Inventory Policy for Imperfect Lot Size with Backorder in Fuzzy Environment	Control & Cybernetics, (H Index 33) SCOPUS , Poland	41 (1)	191-212
32.	2012	Application of Minimax Distribution Free Procedure and Chebyshev Inequality for Backorder Discount Inventory Model with Effective Investment to Reduce Lead-Time and Defuzzification by Signed Distance Method	International Journal of Operational Research, SCOPUS : United Kingdom	15 (4)	371-390
33.	2012	Three Echelon Supply Chain Inventory Model for Deteriorating Items with Limited Storage Facility and Lead-Time under Inflation	International Journal of Services and Operations Management, SCOPUS : United Kingdom	13 (1)	98-118
34.	2013	An Imperfect Quality Items with Learning and Inflation under Two Limited Storage Capacity	International Journal of Industrial Engineering Computations, SCOPUS : CANADA	4 (4)	479-490
35.	2013	A Production Model for Ameliorating Items with Quality Consideration	International Journal of Operational Research, SCOPUS : Inderscience: United Kingdom	17 (2)	183-198
36.	2013	Three Stage Supply Chain Model with Two Warehouse, Imperfect Production, Variable Demand Rate and Inflation	International Journal of Industrial Engineering Computations, SCOPUS : CANADA	4 (1)	81-92
37.	2013	Production Policy for Ameliorating/Deteriorating Items with Ramp Type Demand	International Journal of Procurement Management, SCOPUS : Switzerland	6 (4)	444-465
38.	2013	Volume Flexible Multi Items Inventory System with Imprecise Environment	International Journal of Industrial Engineering Computations, SCOPUS : CANADA	4 (4)	457-468
39.	2013	EOQ Model with Volume Agility, Variable	International Journal of	72 (23)	1-6



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

		Demand Rate, Weibull Deterioration Rate and Inflation.	Computer Applications,		
40.	2013	Three–Stage Supply Chain Coordination under Fuzzy Random Demand and Production Rate with Imperfect Production Process	International Journal of Operational Research SCOPUS : Inderscience United Kingdom	16 (4)	421-447
41.	2013	Supply Chain Inventory Model with Price–Dependent Consumption Rate with Ameliorating and Deteriorating Items and Two Levels of Storage	International Journal of Procurement Management, SCOPUS : Switzerland	6 (2)	129-151
42.	2013	Optimal Ordering Policy for Deteriorating Items with Power-Form Stock Dependent Demand under Two-Warehouse Storage Facility	OPSEARCH, SCOPUS : Springer	50 (2)	182-196
43.	2013	Two Storage Production Model with Imperfect Quality for Decaying Items under Preservation	Procedia Technology, ISSN: 2212-0173 ELSEVIER	10(1)	208-215
44.	2013	A Centralized Reverse Channel Structure with Flexible Manufacturing under the Stock Out Situation	International Journal of Industrial Engineering Computations, SCOPUS : CANADA	4 (4)	559-570
45.	2013	Two-warehouse inventory model of deteriorating items with three-component demand rate and time-proportional backlogging rate in fuzzy environment	International Journal of Industrial Engineering Computations SCOPUS : CANADA	4 (1)	587-598
46.	2013	An Integrated Model with Variable Production and Demand Rate Under Inflation	Procedia Technology, ELSEVIER	10(1)	381-391
47.	2013	An EPQ model with stock dependent demand and time varying deterioration with shortages under inflationary environment	Int. J. Agriculture and Statistical. Science SCOPUS , SCI	9(1)	173-182
48.	2013	A Closed Loop Supply Chain System with Flexible Manufacturing and Reverse Logistics Operation under Shortages for Deteriorating Items	Procedia Technology, ELSEVIER	10(1)	330-339
49.	2013	An inventory model with quadratic demand rate for	Journal of Interdisciplinary Mathematics	14(3)	331–343



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

		decaying items with trade credits and inflation	Taylor & Francis SCOPUS		
50.	2013	Inventory Control with Fuzzy Inflation and Volume Flexibility under Random Planning Horizon.	International Journal of Computer Applications ISSN: 0975-8887	76 (11)	
51.	2013	Application of Minimax Distribution Free Procedure and Chebyshev Approach in Mixed Inventory Model Involving Reducible Lead-Time and Setup Cost with Imprecise Demand	Asia-Pacific Journal of Operational Research, 25 pages SCOPUS , Science Citation Index. Singapore	30 (04)	25 pages
52.	2013	An Inventory Model for Decaying Items, Considering Multi Variate Consumption Rate with Partial Backlogging	Indian Journal of Science and Technology, SCOPUS	6 (7)	
53.	2013	Two-Warehouse Production Policy for Different Demands under Volume Flexibility	International Journal of Industrial Engineering Computations SCOPUS , Canada	4 (4)	599-609
54.	2013	A Global Optimizing Policy for Decaying Items with Ramp-Type Demand Rate under Two-Level Trade Credit Financing Taking Account of Preservation Technology	Advances in Decision Sciences, 12 pages SCOPUS . EGYPT	Article ID 126385	
55.	2013	An Integrated Inventory Model with Fuzzy Variables, Three-Parameter Weibull Deterioration and Variable Holding Cost under Inflation	International Journal of Operational Research SCOPUS , United Kingdom	18 (4)	434-451
56.	2013	An Integrated Production-Inventory Model with Fluctuating Demand and Controllable Deterioration Rate	International Journal of Logistics Economics and Globalization SCOPUS : USA	5 (2)	132-148
57.	2013	Learning Effect on an Inventory Model with Two-Level Storage and Partial Backlogging under Inflation	International Journal of Services and Operations Management SCOPUS , United Kingdom	16 (1)	105-122
58.	2013	Inventory Model with Learning Effect and Imprecise Market Demand under Screening Error	OPSEARCH, SCOPUS , Springer	5 (3)	418-432



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

59.	2013	Two–Warehouse Inventory Model with K–Release Rule and Learning Effect	International Journal of Procurement Management, SCOPUS , Switzerland	6 (1)	76-91
60.	2013	Two-warehouse inventory model of deteriorating items with three-component demand rate and time-proportional backlogging rate in fuzzy environment	International Journal of Industrial Engineering Computation SCOPUS CANADA	4 (4)	587–598
61.	2013	Vendor-Buyers Relationship Model for Deteriorating Items with Shortages, Fuzzy Trapezoidal Costs and Inflation	Yugoslav Journal of Operations Research, SCOPUS University of Belgrade Serbia	23 (1)	73-85
62.	2014	Supply chain production model with preservation technology under fuzzy environment	International Journal of Industrial Engineering Computations, SCOPUS , CANADA	5 (3)	459-472
63.	2014	Two Echelon Supply Chain Model for Deteriorating Items with Effective Investment in Preservation Technology	International Journal of Mathematics in Operational Research, SCOPUS , Switzerland	6 (1)	84-105
64.	2014	An EPQ Model with Trapezoidal Demand under Volume Flexibility	International Journal of Industrial Engineering Computations, SCOPUS , CANADA	5 (1)	127-138
65.	2014	Integrated defective production model for impatient customers with price dependent demand under the effect of learning	International Journal of Mathematics in Operational Research, SCOPUS , Switzerland	6 (5)	589 - 609
66.	2014	Coordination policy for a three echelon supply chain considering imperfect quality items	International Journal of Industrial Engineering Computations, SCOPUS , CANADA	5 (4)	589–602
67.	2014	An Inventory Model for Deteriorating Items with Seasonal Products and an Option of an Alternative Market	Uncertain Supply Chain Management, 2 CANADA		
68.	2014	Optimal Trade-Credit Policy for Perishable Items Deeming Imperfect Production and Stock	International Journal of Industrial Engineering	5 (1)	151-168



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

		Dependent Demand	Computations, SCOPUS		
69.	2014	A Deteriorating Production inventory Problem with Space Restriction	Journal of Information & Optimization Sciences Taylor & Francis, MathSciNet	35 (3)	203–229
70.	2014	An Economic Production Model for Time Dependent Demand with Rework and Multiple Production Setups	International Journal of Industrial Engg. Com. SCOPUS	5 (2)	305-314
71.	2014	An Inventory Model for Deteriorating Item with Reliability Consideration and Trade Credit	Pakistan Journal of Statistics and Operation Research SCOPUS	X(3)	349-360
72.	2014	A Multi Item Inventory Model for Deteriorating Items with Expiration Date and Allowable Shortages	Indian Journal of Science and Technology SCOPUS	7 (4)	463-471
73.	2014	Joint cost minimization approach for three echelon supply chain system with multiple buyers under inflation	Investigacion Operacional SCOPUS CUBA	35 (3)	236-250
74.	2014	Analysis of three level supply chain of inventory with deterioration for multi-items	International Journal of Industrial Engineering Computations, SCOPUS CANADA	5 (3)	417-430
75.	2014	A collaborative strategy for a three echelon supply chain with ramp type demand, deterioration and inflation	OPERATIONS RESEARCH AND DECISIONS Wrocław University of Technology POLAND, MathSciNet	24 (4)	77-100
76.	2014	A production inventory model with flexible manufacturing, random machine breakdown and stochastic repair time	International Journal of Industrial Engineering Computations, SCOPUS CANADA	5 (4)	575-588
77.	2014	A three level integrated inventory model with time dependent demand and production rate under a trade credit policy for both distributor and retailer	Control and Cybernetics SCOPUS SCI Poland	43 (3)	449-470
78.	2014	Mathematical Production Inventory Model For	International Journal of	4	138-



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

		Deteriorating Items with Time Dependent Demand Rate under the Effect of Inflation and Shortages	Computer & Mathematical Sciences		148
79.	2015	An EOQ inventory model with stock and selling price Dependent demand rate, partial backlogging and Variable ordering cost	International Journal of Agricultural and Statistical Sciences	11 (2)	441-447
80.	2015	An EPQ model for non-instantaneous deteriorating item with time dependent holding cost and exponential demand rate	International Journal of Operational Research SCOPUS United Kingdom	23 (2)	145-162
81.	2015	Optimal Payment Policy with Preservation Technology Investment and Shortages Under Trade Credit	Indian Journal of Science and Technology SCOPUS	8 (S7)	203-212
82.	2015	Supply chain management under the effect of trade credit for deteriorating items with ramp-type demand and partial backordering under inflationary environment	Uncertain Supply Chain Management CANADA SCOPUS	3 (4)	339-362
83.	2015	An Inventory Model for Decaying Item with Ramp Demand pattern under Inflation and Partial Backlogging	Indian Journal of Science and Technology SCOPUS	8(12)	1-6
84.	2015	An EPQ model for deteriorating items with price sensitive demand and shortages	International Journal of Operational Research SCOPUS United Kingdom	23, (2)	245-255
85.	2015	Supply chain model for deteriorating items with imperfect production process under budget constraint	Advances in Intelligent Systems and Computing SCOPUS Springer-Verlag	34(1)	272-284
86.	2015	Progressive trade credit policy in a supply chain with and without stock-out for supplier's lead time under inflationary and fuzzy environment	Systems Science & Control Engineering Taylor & Francis Group United Kingdom SCOPUS	3(1)	284-299



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

87.	2015	Joint replenishment modelling of a multi-item system with greening policy and volume flexibility	International Journal of Operational Research SCOPUS United Kingdom	22, (2)	148 - 166
88.	2015	Retailer's Optimal Policy under Inflation in Fuzzy Environment with Trade Credit	International Journal of Systems Science, Taylor & Francis Group United Kingdom SCOPUS SCI	46, (4)	754-762
89.	2015	EOQ model for decaying items with power demand, partial backlogging and inflation	International Journal of Applied Engineering Research SCOPUS	10, 9	2286 1-2287 3
90.	2015	Optimal payment policy with preservation technology investment and shortages under trade credit	Indian Journal of Science and Technology SCOPUS	8(S7),	203–212,
91.	2015	Production Planning using Fuzzy- Meta Goal Programming model	Indian Journal of Science and Technology SCOPUS	8 (34)	1-9
92.	2015	An Integrated Production Inventory Model for Repairable Items with Uncertain Lead Time	Indian Journal of Science and Technology SCOPUS	9 (41)	1-9
93.	2016	An integrated production inventory model for perishable products with trade credit period and investment in preservation technology	International Journal of Mathematics in Operational Research SCOPUS DOI: 10.1504/IJMOR.2016.074852	8(2)	137-163
94.	2016	Manufacturer-supplier cooperative inventory model for deteriorating item with trapezoidal type demand	Yugoslav Journal of Operations Research, SCOPUS , SERBIA DOI: 10.2298/YJOR140101021S SCOPUS	26 (1)	103-120
95.	2016	A reverse logistic inventory model for imperfect production process with preservation technology investment under learning and inflationary environment	Uncertain Supply Chain Management Canada SCOPUS	4	107–122
96.	2016	An economic order quantity model for deteriorating products having stock dependent	Uncertain Supply Chain Management	4	29–42



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

		demand with trade credit period and preservation technology	Canada SCOPUS		
97.	2016	A production reliable model for deteriorating products with random demand and inflation	International Journal Of Systems Science: Operations & Logistics http://www.tandfonline.com/doi/full/10.1080/23302674.2016.1181221		1-10
98.	2016	Inventory model with multivariate demands in different phases with customer returns and inflation	International Journal of Mathematics in Operational Research SCOPUS Switzerland	8 (4)	477-489
99.	2016	A multi-item integrated inventory model with reparability and manufacturing of fresh products	Modern Applied Science SCOPUS Canada	10 (7)	74-86
100.	2016	Multi-item economic production quantity model for imperfect items with multiple production setups and rework under the effect of preservation technology and learning environment	International Journal of Industrial Engineering Computations SCOPUS Canada	4 (1)	703-716
101.	2016	A two-warehouse production inventory model with trade credit under reliability consideration	Uncertain Supply Chain Management SCOPUS Canada	4	1-12
102.	2016	Reverse logistic model for deteriorating item with preservation technology investment and learning effect in an inflationary environment	Control and Cybernetics SCOPUS Poland	45 (1)	1-11
103.	2016	Inventory models with multiple production and Remanufacturing batches under shortages	Control and Cybernetics SCOPUS Poland	45 (3)	1-31
104.	2016	Vendor - Buyer Model with Error in Quality Inspection and Selling Price Dependent Demand Rate under the Effect of Volume Agility	International Journal of Operations and Quantitative management SCOPUS United States	22 (4)	357-371
105.	2017	Optimal Policy for Non-Instantaneous Decaying Inventory Model with Learning Effect and Partial Shortages	International Journal of Computer Applications	161 (10)	13-18



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

106.	2017	Two warehouse inventory policy with price dependent demand and deterioration under partial backlogging	Decision Science Letters Canada SCOPUS	6	11-22
107.	2017	An EOQ model with quantity incentive strategy for deteriorating items and partial backlogging	Uncertain Supply Chain Management Canada	5	135-142
108.	2017	A partially backlogged EPQ model with demand dependent production and non-instantaneous deterioration	International Journal of Mathematics in Operational Research Switzerland SCOPUS	10(2),	pp. 211-228
109.	2017	Economic order quantity model for imperfect lot with partial backordering under the effect of learning and advertisement dependent imprecise demand	International Journal of Operational Research United Kingdom SCOPUS	29(2),	pp. 197-218
110.	2017	An EOQ model with variable holding cost and partial backlogging under credit limit policy and cash discount	Uncertain Supply Chain Management Canada SCOPUS	5(1),	pp. 27-42
111.	2017	Optimal production policies for reverse logistic model under time value of money	International Journal of Operational Research United Kingdom SCOPUS	29(4), pp.	531-552
112.	2017	A green supply chain model of vendor and buyer for remanufacturing	RAIRO - Operations Research France SCOPUS	29-2	
113.	2017	Two levels of storage models for deteriorating items with Stock dependent demand and shortages	International Journal of Engineering Researches and Management Studies	4(7)	11-21
114.	2018	Integrated model with flexible production rate for a Deteriorating item and partial backlogging under the Effect of inflation in fuzzy framework http://acadpubl.eu/hub	International Journal of Pure and Applied Mathematics Kuwait SCOPUS	Vol. 118 No. 22	1481-1494
115.	2018	Review of Literature and survey of the developed inventory models, 673-685	International Journal of Mathematics and its applications,	6(1-D)	673-685
116.	2018	An inventory policy for deteriorating items with variable demand rate and Trade credit period under partial backlogging	International Journal of Pure and Applied Mathematics SCOPUS	Vol. 118 No. 22	1283-1290
117.	2018	An inventory model for non- instantaneous deteriorating products having price- sensitive	International Journal of Operations & Quantitative	24 (1),	59-73



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

		demand and partial backlogging of occurring shortages	Management, United States SCOPUS		
118.	2018	A supply chain inventory model with expiration date, variable holding cost in An inflationary environment	International Journal of Pure and Applied Mathematics Kuwait SCOPUS	118(22)	1353-1360
119.	2018	Replenishment policy for deteriorating items with trade credit and allowable shortages under inflationary environment	Int. J. Process Management and Benchmarking United Kingdom SCOPUS		
120.	2018	Two Warehouse Inventory Model for Life Time Deterioration and Inflation with Exponential Demand and Partial Lost Sales	International Journal of Pure and Applied Mathematics Kuwait SCOPUS	Vol. 118 No. 22	1253-1265
121.	2018	Credit financing in optimal ordering policies with Inflation in fuzzy surroundings	International Journal of Agricultural Statistical Sciences SCOPUS	14(1),	251-262
122.	2018	Reverse logistics inventory model with product life cycle under volume flexibility	International Journal of Pure and Applied Mathematics Kuwait SCOPUS	Vol. 118 No. 22	1297-1307
123.	2018	An inventory model for deteriorating items with expiry date and time varying holding cost DOI: 10.1504/IJPM.2018.10014398	Int. J. Procurement Management, Switzerland SCOPUS	11(5)	
124.	2018	Impact of trade credit on retailer's optimal policy for Deteriorating items with stock dependent demand and Effect of learning	International Journal of Pure and Applied Mathematics SCOPUS	Vol. 118 No. 22	1225-1234
125.	2018	A fuzzy imperfect production and repair inventory model with time dependent demand, production and repair rates under inflationary conditions https://doi.org/10.1051/ro/2017070	RAIRO Operations Research France SCOPUS	52 (2018)	217-239
126.	2018	Two warehouse inventory model with time varying demand and partial Backlogging under inflationary environment	International Journal of Pure and Applied Mathematics Kuwait SCOPUS	Vol. 118 No. 22	1275-1282



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

127.	2018	An EPQ model for deteriorating items with variable demand rate and allowable shortages DOI: 10.1504/IJMOR.2018.088582	International Journal of Mathematics in Operational Research Switzerland SCOPUS	Vol.12, No.1	117 - 128
128.	2018	An inventory model for deteriorating items with expiry date and time varying holding cost	International Journal of Procurement Management SCOPUS	Volume 11, Issue 5,	650-666
129.	2018	Supply chain system for time and quality dependent decaying items with multiple market demand and volume flexibility	International Journal of Operational Research SCOPUS	Volume 31, Issue 2, 2018,	Pages 245-261
130.	2018	A production inventory model for deteriorating products with selling price dependent consumption rate and shortages under inflationary environment	International Journal of Procurement Management SCOPUS	Volume 11, Issue 1, 2018,	36-52
131.	2018	Credit financing in optimal ordering policies with inflation in fuzzy surroundings	International Journal of Agricultural and Statistical Sciences SCOPUS	14(1),	pp. 251-262
132.	2018	An inventory model for two storage system with stock dependent demand	I-Manager's Journal on Mathematics,	Vol. 7 No. 3	42-50
133.	2018	An inventory model for non-instantaneous deteriorating products having price sensitive demand and partial backlogging of occurring shortages	International Journal of Operations and Quantitative Management SCOPUS	Volume 24, Issue 1, 1 March	59-73
134.	2019	Optimal strategy for an inventory model based on agile manufacturing under imperfect production process	International Journal of Mathematics in Operational Research SCOPUS	14(1)	106-12



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

135.	2019	A partially backlogged supply chain model for deteriorating items under reverse logistics, imperfect production/remanufacturing and inflation	International Journal of Logistics Systems and Management SCOPUS	33(2),	221-255
136.	2019	Inventory model for deteriorating items with incremental holding cost under partial backlogging	International Journal of Mathematics in Operational Research SCOPUS	15(1)	110-126
137.	2019	Two levels of storage model for deteriorating items, stock dependent demand and partial backlogging with both rented warehouses	International Journal of Process Management and Benchmarking SCOPUS , United Kingdom	9(4)	485-498
138.	2019	A pharmaceutical inventory model for varying deteriorating items with price sensitive demand and partial backlogging under the effect of learning	International Journal of Applied and Computational Mathematics SPRINGER NATURE	5(3)	18 Pages
139.	2020	Supply chain model for expiring items following ramp type demand with stochastic lead time under crisp and fuzzy environment	International Journal of Fuzzy System Applications United Kingdom SCOPUS	9(1),	64-91
140.	2020	Replenishment policy for deteriorating items with trade credit and allowable shortages under inflationary environment	International Journal of Process Management and Benchmarking SCOPUS	10(4)	462-478
141.	2020	A trade credit policy in an EOQ model with stock sensitive demand and shortages for deteriorating items	International Journal of Services Operations and Informatics SCOPUS	10(4)	350-362
142.	2020	A reverse logistics model for decaying items with variable production and remanufacturing incorporating learning effects	International Journal of Operational Research, 2020 SCOPUS	38(3)	422-448
143.	2020	Selection of remanufacturing/production cycles with an alternative market: A perspective on waste management	Journal of Cleaner Production ELSEVIER SCOPUS, SCI	245	



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

144.	2021	A fuzzy integrated inventory system with end of life treatment: a possibility in sports industry	OPSEARCH https://doi.org/10.1007/s12597-020-00492-3 SCOPUS		
145.	2021	JIT: The best approach after lockdown in Country	International Journal of Services Operations and Informatics , 10.1504/IJSOI.2021.10035882 SCOPUS	11(1):1	
146.	2021	Growing items inventory model for carbon emission under the permissible delay in payment with partially backlogging	GREEN FINANCE DOI: 10.3934/GF.2021009 ESCI	3(2)	153–174
147.	2021	Impact of Energy and Carbon Emission of a Supply Chain Management with Two-Level Trade-Credit Policy	ENERGIES https://doi.org/10.3390/en14061569 SCOPUS, SCI	14, 1569	
148.	2021	A reverse logistics inventory model with multiple production and remanufacturing batches under fuzzy environment	RAIRO- OPERATIONS RESEARCH https://doi.org/10.1051/ro/2021021 , SCOPUS, SCI	55 (2021)	571–588

Publications in proceeding / Book Chapter Since 2010

S.No	Year	Title	Proceeding Name	Detail
1.	2010	Optimization of Fuzzy Inventory Model of Repairable Defective Product under the Effect of Learning	Reliability, Infocom Technology and Optimization	ISBN: 978-81-909732-2-9, pp. 341-352
2.	2010	Policy Decision of a Supply Chain Inventory System with Exponential Demand and Deterioration	Proceedings of the VI International Symposium on Optimization and Statistics Editors: Abdul Hamid Khan And Haseeb Athar	Published By The Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh, pp. 228-243
3.	2010	An Integrated Inventory Model with	Reliability, Infocom Technology and	ISBN: 978-81-909732-2-9,



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

		Limited Facility in Inflationary Environment	Optimization	pp. 568-581
4.	2010	Profit Maximizing Probabilistic Inventory Model under the Effect of Permissible Delay	Proceedings of The International Multi Conference of Engineers and Computer Scientists 2010 Vol. III	ISBN: 978-988-18210-5-8 ISSN (Print): 2078-0958 ISSN (Online): 2078-0966
5.	2010	Learning Effect on Fuzzy Production Inventory Model with Non Repairable Defective Items in Fuzzy Environment with Backorder	Reliability, Infocom Technology and Optimization	ISBN: 978-81-909732-2-9, pp. 619-632
6.	2010	An Integrated Production Inventory Model with Linear Production and Demand of Deteriorating Item in a Supply Chain	Proceedings of the VI International Symposium on Optimization and Statistics Editors: Abdul Hamid Khan And Haseeb Athar	Published By The Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh, India pp. 252-261
7.	2011	Deterministic and Probabilistic EOQ Models for Products Having Power Demand Pattern	Proceeding of the World Congress on Engineering 2011 Vol. I WCE 2011, July 6 - 8, 2011, London, U.K	ISBN: 978-988-18210-6-5 ISSN: 2078-0958 (PRINT); ISSN:2078-0966 (ONLINE)
8.	2012	A Methodology of an End-Of-Life Product in a Green Supply Chain	2012 International Conference on Emerging Paradigms and Practice in Information & Communication Technology and Management (2012 EPPICTM)	Review of Business and Technology Research VOL.5, NO.1, 2012, pp. 119-127 ISSN: 1941-9414
9.	2012	An Optimizing Policy for Decaying Items with Ramp-Type Demand and Preservation Technology under Trade Credit and Inflation	2012 International Conference on Emerging Paradigms and Practice in Information & Communication Technology and Management (2012 EPPICTM)	Review of Business and Technology Research, VOL. 5, NO. 1, pp. 54-62, 2012. ISSN: 1941-9414
10.	2012	A Multi Warehouse Inventory Model with the Effect of Learning and Inflation	2012 International Conference on Emerging Paradigms and Practice in Information & Communication Technology and Management (2012 EPPICTM)	Review of Business and Technology Research, VOL. 5, NO. 1, pp. 128-135, 2012. ISSN: 1941-9414
11.	2012	An EPQ Model with Shortages and Imperfect Quality Items under Fuzzy Environment and Inflation	Proceedings of the International Conference International Conference on Optimization, Computing and Business Analytics (ICOCBA) 2012	ISBN: 978-81-8424-814-2, pp. 37-41
12.	2012	An Optimal SSMD Strategy for the Deteriorating Product with End-Of-Life Treatment	Proceedings of the International Conference International Conference on Optimization, Computing and Business Analytics (ICOCBA) 2012	ISBN: 978-81-8424-814-2, pp. 189-194
13.	2012	An Inventory Model for Deteriorating Items with Price Sensitive Demand, Shortages and Trade Credit under Inflation	Proceedings of the International Conference International Conference on Optimization, Computing and Business Analytics (ICOCBA) 2012	ISBN: 978-81-8424-814-2, pp. 195-200



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

14.	2012	A Two Warehouse Inventory Model for Deteriorating Items with Multivariate Demand and Shortages in an Inflationary Environment	Proceedings of the International Conference International Conference on Optimization, Computing and Business Analytics (ICOCBA) 2012	ISBN: 978-81-8424-814-2, pp. 211-218
15.	2012	Inventory Model for Decaying Item with Continuously Variable Holding Cost and Partial Backlogging	Proceedings of the Second International Conference on Soft Computing for Problem Solving (SOCPROS 2012) SPRINGER	ISBN: 978-81-322-1601-8, Vol. 2, pp. 373-382
16.	2012	The Value of Product Life-Cycle for Deteriorating Items in a Closed Loop under the Reverse Logistics Operations	Proceedings of the Second International Conference on Soft Computing for Problem Solving (SOCPROS 2012)	ISBN: 978-81-322-1601-8, Vol. 2, pp. 383-396
17.	2012	A Fuzzified Production Model with Time Varying Demand under Shortages and Inflation	Proceedings of the Second International Conference on Soft Computing for Problem Solving (SOCPROS 2012)	ISBN: 978-81-322-1601-8, Vol. 2, pp. 397-406
18.	2012	A Partial Backlogging Inventory Model for Decaying Items: Considering Stock and Price Dependent Consumption Rate in Fuzzy Environment	Proceedings of the Second International Conference on Soft Computing for Problem Solving (SOCPROS 2012)	ISBN: 978-81-322-1601-8, Vol. 2, pp. 407-418
19.	2012	Two Storage Inventory Model for Perishable Items with Trapezoidal Type Demand under Conditionally Permissible Delay in Payment	Proceedings of the Second International Conference on Soft Computing for Problem Solving (SOCPROS 2012)	ISBN: 978-81-322-1601-8, Vol. 2, pp. 1369-1386
20.	2012	A Production Inventory Model for Perishable Items with Shortages in Fuzzy Environment	Proceeding of the National Conference on Recent Trends in Operations Research (NCRTOR-2013)	E-ISBN 978-93-5104-748-3 pp. 208-218
21.	2013	An Imperfect Production Model for Decaying Items with Time Dependent Rates under Two Storage Facilities	Proceeding of the National Conference on Recent Trends in Operations Research (NCRTOR-2013)	E-ISBN 978-93-5104-748-3 pp. 201-207
22.	2013	Seasonal Effect on a Reverse Logistics Inventory Model for Deteriorating Items	Proceeding of the National Conference on Recent Trends in Operations Research (NCRTOR-2013)	E-ISBN 978-93-5104-748-3 pp. 73-80
23.	2013	A Supply Chain Inventory Model with Imperfect and Time Varying Production under Inflation	Proceeding of the National Seminar on Modeling and its Application in Science and Technology 2013	ISSN Print: 2231-3843 ISSN online: 2277-8691 pp. 123-144
24.	2013	Inventory Model for Deteriorating Items with Inventory Dependent Demand Rate and Lost Sales with Capacity Constraints	Proceeding of the National Seminar on Modeling and its Application in Science And Technology 2013	ISSN print: 2231-3843 ISSN online: 2277-8691 pp. 145-159
25.	2013	A Closed Loop Supply Chain Inventory Model for the	Proceedings of the Third International Conference	ISBN: 978-81-322-1767-1, Vol. 2, pp. 17-30



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

		Deteriorating Items With JIT Implementation	on Soft Computing for Problem Solving (SOCPROS 2013)	
26.	2013	An Inventory Model with Time Dependent Demand under Inflation and Trade Credits	Proceedings of the Third International Conference on Soft Computing for Problem Solving (SOCPROS 2013)	ISBN: 978-81-322-1767-1, Vol. 2, pp. 155-166
27.	2013	An Integrated Production Model in Fuzzy Environment under Inflation	Proceedings of the Third International Conference on Soft Computing for Problem Solving	ISBN: 978-81-322-1767-1, Vol. 2, 289-301
28.	2013	An Imperfect Production Model with Preservation Technology and Inflation under the Fuzzy Environment	Proceedings of the Third International Conference on Soft Computing for Problem Solving	ISBN: 978-81-322-1767-1, Vol. 2, pp. 315-324
29.	2013	Two Storage Inventory Model for Deteriorating Items under Fuzzy Environment	Proceedings of The Third International Conference on Soft Computing for Problem Solving	ISBN: 978-81-322-1770-1
30.	2013	An EOQ Inventory Model with Exponential Demand and Deterioration and Partial Backlogging	Innovation, Social Networking and Technologies	ISBN: 978-93-82951-46-9, pp. 179-190, 2013
31.	2013	EOQ Model for Green Operations with Stewardship and Environmental Management Capacity of Supplier	Innovation, Social Networking and Technologies	ISBN: 978-93-82951-46-9, pp. 191-195, 2013
32.	2013	A Two Warehouse Inventory Model for Deteriorating Items with Shortages under Inflationary Environment	Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET'2014)	ISBN: 978-93-5107-222-5, pp. 385-391
33.	2014	An Integrated Inventory Model with Remanufacturing of Secondary Material under Shortages	Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET'2014)	ISBN: 978-93-5107-222-5, pp. 354-359
34.	2014	A Partially Backlogged Inventory Model for Perishable Item with Multivariate Consumption Rate in Finite Scheduling Period	Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET'2014)	ISBN: 978-93-5107-220-1, pp. 617-624
35.	2014	A Two-Warehouse Imperfect Production Model with Preservation Technology, Fuzzy and Inflation	Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET'2014)	ISBN: 978-93-5107-220-1, pp. 504-511
36.	2014	A Production-Inventory Model Incorporating the Effect of Learning when Demand is Fluctuating with Production Rate	Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET'2014)	ISBN: 978-93-5107-220-1, pp. 534-541



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

37.	2014	A Production Remanufacturing System For Probabilistic Decaying Items with Volume Flexible Environment	Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET'2014)	ISBN: 978-93-5107-222-5, pp. 431-437
38.	2014	Supply Chain Inventory Model for Deteriorating Item with Trapezoidal Type Demand	Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology	ISBN: 978-93-5107-220-1, pp. 462-470
39.	2014	An Imperfect Production Model with Preservation Technology and Inflation under Storage Capacity	Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology	ISBN: 978-93-5107-220-1, pp. 643-650
40.	2014	EOQ Model with Fluctuating Demand and Trade-Credit Facility in Fuzzy Surroundings	International Conference on Mathematical Sciences (ICMS-2014), Sathyabama University	ISBN: 978-93-5107-261-4, pp. 731-734
41.	2014	An Imperfect Production Model with Time Dependent Demand and Deterioration under Volume Flexibility and Inflation	International Conference on Mathematical Sciences , Sathyabama University	ISBN: 978-93-5107-261-4, pp. 727-730
42.	2014	An EPQ Model for Damageable Items with Imperfect Quality under Inflationary and Learning Environment	International Conference on Mathematical Sciences Sathyabama University	ISBN: 978-93-5107-261-4, pp. 810-814
43.	2014	Optimal Policy for EOQ Model with Stock-Dependent Demand under Inflation and Trade Credit	International Conference on Mathematical Sciences (ICMS-2014), Sathyabama University	ISBN: 978-93-5107-261-4, pp. 739-742
44.	2014	Integrated Production-Inventory Model with Imperfect Production Process and Exponential Demand	Proceeding of 3rd International Conference on Management Innovations ICMI-2014	ISBN: 978-93-392-0324-5 pp. 563-577
45.	2014	A Decaying Inventory Model with Logarithmic Pattern Demand Rate under Inflation	Proceeding of 3rd International Conference on Management Innovations ICMI-2014	ISBN: 978-93-392-0324-5 pp. 578-586
46.	2015	Production inventory model with preservation technology investment under the effect of learning and shortages	Proceedings of International Conference on Reliability, Infocom Technologies and Optimization: Trends and Future Directions	ISBN: 9781467372329
47.	2015	EPQ model for deteriorating items under customer returns with shortage and partial backlogging	Proceedings of International Conference on Reliability, Infocom Technologies and Optimization: Trends and Future Directions,	ISBN: 9781467372329
48.	2016	A production model with stock-	Proceedings of Fifth International	https://doi.org/10.1007/978-981-



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

		dependent demand, partial backlogging, weibull distribution deterioration, and customer returns	Conference on Soft Computing for Problem Solving. Advances in Intelligent Systems and Computing, vol 436. Springer, Singapore.	10-0448-3_2
49.	2016	An inventory model for deteriorating items having seasonal and stock-dependent demand with allowable shortages	Proceedings of Fifth International Conference on Soft Computing for Problem Solving. Advances in Intelligent Systems and Computing, vol 437. Springer, Singapore.	https://doi.org/10.1007/978-981-10-0451-3_46
50.	2020	Optimal Refill Policy for New Product and Take-Back Quantity of Used Product with Deteriorating Items Under Inflation and Lead Time	Strategic System Assurance and Business Analytics ISSN 2522-5162 ISSN 2522-5170 (electronic) Asset Analytics ISBN 978-981-15-3646-5 ISBN 978-981-15-3647-2 (eBook)	https://doi.org/10.1007/978-981-15-3647-2 © Springer Nature Singapore Pte Ltd. 2020 503-16
51.	2020	Effect of Preservation Technology on Optimization of Two Warehouse Inventory Model for Deteriorating Items	Decision Analytics Applications in Industry ISSN 2522-5162 ISSN 2522-5170 (electronic) Asset Analytics ISBN 978-981-15-3642-7 ISBN 978-981-15-3643-4 (eBook)	https://doi.org/10.1007/978-981-15-3643-4 © Springer Nature Singapore Pte Ltd. 2020 431-442
52.	2021	A Production Reliable Model for Imperfect Items with Random Machine Breakdown Under Learning and Forgetting	Optimization and Inventory Management ISSN 2522-5162 ISSN 2522-5170 (electronic) Asset Analytics ISBN 978-981-13-9697-7 ISBN 978-981-13-9698-4 (eBook)	https://doi.org/10.1007/978-981-13-9698-4 © Springer Nature Singapore Pte Ltd. 2020 93-118

Books Authored Since 2010

S.No	Year	Title	DETAILS/ISBN	Type of book
1	2010	Fuzzy Set Theory	978-81-8283-466-8	Text book
2.	2010	Advanced Mathematical Method	978-81-8283-402-6	Text book
3	2011	Integral Equations	978-81-8283-093-6	Text book
4	2011	Advance Discrete Structure	978-93-80578-48-4 I K International Pub. New Delhi	Text book



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

5	2012	Topology	978-93-81141-89-2 Dreamtech Press, Wiley	Text book
6	2014	Basics of System Modeling and Simulation	978-81-903536-3 Gabd Books Publication	Text book
7	2015	Engineering Mathematics for I and II Semester	Print 978-93-392-1964-2 E Book 978-93-392-1965-9 McGraw Hill Education	Text book
8	2016	Engineering Mathematics for Semesters III and IV	Print Edition ISBN 13: 978-93-858-8050-6 ISBN 10: 93-858-8050-0 EBook Edition ISBN 13: 978-93-858-8051-3 ISBN 10: 93-858-8051-9 McGraw Hill Education	Text book
9	2017	Measure Theory and Integration	978-93-85909-43-6 Dreamtech Press, Wiley	Text Book
10	2018	Inventory Models with Volume Flexibility	9788193249642	Research Book

Professional Societies Memberships

- President Operational Research Society of India Meerut Chapter
<http://www.orsl.in/pages/chapters/chap-meerut.php>
- Life Member of Indian Science Congress
- Life Member of Indian Mathematical Society
- Life Member of Operational Research Society of India
- Life Member of Rajasthan Ganita Parishad



S R SINGH, CCS UNIVERSITY MEERUT, UP, INDIA

Projects

Title/Subject of Research Project(s)		Name of Sponsoring/ Funding Agency
Development of some inventory models for deteriorating products	P I	UGC
Development of some mathematical inventory models under the effect of inflation	P I	UGC
Mathematical modeling of inventory with environmental concern	P I	UP Govt.