

List of Tables

Table No.		After Page No.
Table 1.0	Generalised stratigraphy of the Jaisalmer Basin	2
Table 2.0	Lithostratigraphy of the Jaisalmer Formation	20
Table 2.1	Ammonites recorded from the Jaisalmer Formation around Kanod	21
Table 2.2	A composite lithostratigraphic classification of the Jurassic sediments of the Jaisalmer Basin	29
Table 2.3	Lithostratigraphical classification of the Khuiala Formation	33
Table 2.4	Biostratigraphy (modified after Krishna 1987)	36
Table 2.5	Temporal distribution of ammonoids in the Jurassic sediments of the Jaisalmer Basin	36
Table 2.6	Integrated ammonoid and foraminiferal biozones of Jurassic sediments in the Jaisalmer Basin	36
Table 2.7	Ammonite biostratigraphic zonations of the marine Jurassic succession of the Jaisalmer Basin (Prasad 2006: 61)	36
Table 2.8	Correlation of Jurassic rocks of the Jaisalmer and Kachchh Basins	36
Table 2.9	Biostratigraphic correlation of Jurassic successions of the Kachchh 38 and Jaisalmer Basin	37
Table 2.10	A detail temporal distribution of different groups of fossils and ammonites recorded by earlier workers from the Jaisalmer & Baisakhi Formation	37
Table 3.1	Section of Bada Bag Member exposed 1.5 km west of the Charu	40
Table 3.2	Section of the Fort Member exposed south of the village Charu	41
Table 3.3	Section of Bada Bag, Kuldhar Jajiya & Rupsi members exposed 1 km west of Kanod	43
Table 3.4	Section of the Bada Bag Member exposed 2 km northwest of Charu	47
Table 3.5	Section of the Fort Member exposed north of the village Charu	49
Table 3.6	Section of the Bada Bag Member exposed southwest of the Kanod	51
Table 3.7	Section of the Bada Bag Member exposed 1 km south of Kanod	53

Table No.		After Page No.
Table 3.8	Section of the Bada Bag, Kuldhar members exposed north-northwest of the Kanod	55
Table 3.9	Section of the Bada Bag Member exposed northeast of Kanod	57
Table 3.10	Section of the Rupsi & Ludharwa members exposed northwest of the Kanod village	58
Table 3.11	Section of the Rupsi member exposed at 1.5-2 km northwest of the Kanod	61
Table 3.12	Section of the Baisakhi Formation exposed 2 km west of Kanod	62
Table 3.13	Section of the Ludhrawa Member exposed 2-2.5 km northwest of Kanod	62
Table 4.1	Petrography of the selective beds of the Bada Bag Member (L1) of the Jaisalmer Formation exposed 1.5 km west of the village	70
Table 4.2	Petrography of the selective beds of the Fort Member (L2) of the Jaisalmer Formation exposed south of the village Charu	70
Table 4.3	Petrography of the selective beds of the Bada Bag, Kuldhar and Jajiya members (L3) of the Jaisalmer Formation exposed 1 km west of Kanod	70
Table 4.4	Petrography of the selective beds of the Bada Bag Member (L4)	70
Table 4.5	Petrography of the selective beds of the Fort Member (L5)	70
Table 4.6:	Petrography of the selective beds of the Bada Bag and Kuldhar members (L6)	70
Table 4.7	Petrography of the selective beds of the Bada Bag Member (L7)	70
Table 4.8	Petrography of the selective beds of the Bada Bag Member (L8)	70
Table 4.9	Petrography of the selective beds of the Bada Bag Member (L9)	70
Table 4.10	Petrography of the selective beds of the Baisakhi Formation (L10)	70
Table 4.11	Petrography of the selective beds of the Rupsi Member (L11)	70
Table 5.1	List of ammonites collected from the Kuldhar Member (L3)	71

List of Text-figures

Text-Figure No.		After Page No.
Text-fig. 1.0	Location map of India showing Rajasthan & Jaisalmer	1
Text-fig. 1.1	Geological section across Indo-Arabian Geological Province	1
Text-fig. 1.2	Tectonic map of the Rajasthan shelf	2
Text-fig. 1.3	Palaeogeographic position of Indian craton during Jurassic	2
Text-fig. 1.4	Google image of the present study area	12
Text-fig. 1.5	Google image showing location of Kala Dunger Temple	13
Text-fig. 1.6	Google image showing location of the measured stratigraphic Sections (L1-L13)	14
Text-fig. 2.0	Tectonic map of the Jaisalmer Basin	16
Text-fig. 2.1	Geological map of the Jaisalmer Basin	17
Text-fig. 3.0	Key of symbols used for text-figs. 3.1-3.13	40
Text-fig. 3.1	Litho-log of the Bada Bag Member (L1) exposed 1.5 km west of the village Charu, along the Mohangarh road	41
Text-fig. 3.2	Litho-log of the Fort Member (L2) exposed south of the village Charu on the left hand side of the Mohangarh road	43
Text-fig. 3.3	Litho-log of the Bada Bag, Kuldhar, Jajiya and Rupsi members (L3) exposed 1 km west of Kanod	47
Text-fig. 3.4	Litho-log of the Bada Bag Member (L4) exposed 2 km northwest of the village Charu	49
Text-fig. 3.5	Litho-log of the Fort Member (L5) exposed north of the village Charu, on the left hand side of the Mohangarh road	51
Text-fig. 3.6	Litho-log of the Bada Bag Member (L6) exposed southwest of the village Kanod	53
Text-fig. 3.7	Litho-log of the Bada Bag Member (L7) exposed 1 km south of the Kanod	55
Text-fig. 3.8	Litho-log of the Bada Bag & Kuldhar members (L8) exposed north-northwest of the Kanod village	57

Text-Figure No.		After Page No.
Text-fig. 3.9	Litho-log of the Bada Bag Member (L9) exposed northeast of Kanod village	58
Text-fig. 3.10	Litho-log of the Rupsi & Ludharwa members (L10) exposed northwest of the Kanod village	61
Text-fig. 3.11	Litho-log of the Rupsi Member (L11) exposed at 1.5-2 km northwest of the Kanod	62
Text-fig. 3.12	Litho-log of the Ludharwa Member (L12) exposed 2 km west of the Kanod village	63
Text-fig. 3.13	Litho-log of the Rupsi & Ludhrawa Member (L13) exposed 2-2.5 km northwest of the Kanod	66
Text-fig. 5.1	Measurements and abbreviations used in the present work (modified after Pandey et al., 2012)	70
Text-figs.6.1-6.13	Sequence stratigraphic framework of the Jaisalmer and Baisakhi formations examined in the study area (L1-L13)	96
Text-fig. 6.14-6.16	Sequence stratigraphic correlation of the Jaisalmer and Baisakhi formations examined in the study area (L1-L13)	96

List of Plates & Explanation of Plates

Plate No.		After Page No.
Plate 3.1	Bada Bag Member of the Jaisalmer Formation exposed 1.5 km west of the village Charu, along the Mohangarh road	41
Plate 3.2	Fort Member of the Jaisalmer Formation exposed south of the village Charu, on the left hand side of the Mohangarh road	43
Plate 3.3	Bada Bag, Kuldhar, Jajiya and Rupsi members exposed 1 km west of Kanod, on the right hand side of the Kala Dongar temple road	47
Plate 3.4	Bada Bag Member of the Jaisalmer Formation exposed 2 km northwest of the village Charu	49
Plate 3.5	Fort Member of the Jaisalmer Formation exposed north of the village Charu, on the left hand side of the Mohangarh road	51
Plate 3.6	Bada Bag Member of the Jaisalmer Formation exposed southwest of the village Kanod	53
Plate 3.7	Bada Bag Member of the Jaisalmer Formation exposed 1 km south of Kanod towards Hamira	55
Plate 3.8	Bada Bag and Kuldhar members of the Jaisalmer Formation exposed north-northwest of the Kanod village	57
Plate 3.9	Rupsi and Ludharwa members of the Baisakhi Formation exposed northwest of the Kanod village	61
Plate 3.10	Rupsi Member of the Baisakhi Formation exposed at 1.5-2 km northwest of the Kanod village	62
Plate 3.11	Ludharwa Member of the Baisakhi Formation exposed 1-1.5 km west of the Kanod village	63
Plate 3.12	Rupsi and Ludhrawa members of the Baisakhi Formation exposed 2-2.5 km northwest of the village Kanod	66
Plate 3.13	Rupsi and Ludharwa members of the Baisakhi Formation exposed 2-2.5 km northwest of the village Kanod	66
Plates 4.1 - 4.12	Explanation of the Micro-photographic Plates of the selective rock-samples of the Jaisalmer and Baisakhi formations examined in the study area.	70
Plates 5.1 - 5.9	Explanation of fossils collected from the Kuldhar Member of the Jaisalmer Formation exposed 1 km west of the village Kanod, north-east of the Jaisalmer city.	89