means improbable that we owe the idols of *Bamián* to the caprice of some person of rank, who resided in this cave-digging neighbourhood, and sought for an immortality in the colossal images which we have now described.

II.—Account of the Earthquake at Kathmandú. By A. Campbell, Esq. Assistant Surgeon, attached to the Residency.

On the 26th of August last, about 6 o'clock P. M. a smart shock of earthquake was experienced throughout the valley, and the neighbouring hills, westward in the valley of Nayakot and Dúny Byas; eastward at Panouti, Baneppa, Dulkele, and Pholam Chik; and southward at Chitlong, Chisagarhy, Etounda, and Bissoulea. was preceded by a rumbling noise from the eastward. The motion of the earth was undulatory, as of a large raft floating on the ocean. and the direction of the swell was from north-east towards southwest. The shock lasted about 1 minute. At 10-45* P. M. of the same day another shock of equal duration and of the same character occurred, and at 10-58, a third and most violent one commenced: at first it was a gentle motion of the earth, accompanied by a slight rumbling noise; soon however it increased to a fearful degree, the earth heaved as a ship at sea, the trees waved from their roots, and houses moved to and fro far from the perpendicular. Horses and other cattle, terrified, broke from their stalls, and it was difficult to walk without staggering as a landsman does on ship-board. This shock lasted for about three minutes in its fullest force. And the following is as correct an estimate as can be ascertained (without official documents) of the damage done by it to life and property throughout the great valley and neighbouring districts of Nipal. It is believed that the two first shocks were harmlesst.

[†] Doctor Campbell's subsequent letters inform us, that there have been frequent shocks of less violence since the above, many of which (on the 4th and 18th Oct. particularly) were felt at Calcutta, Monghyr, Chittagong, Allahabad, and Jabalpúr, nearly simultaneously. On the 26th Oct. he writes, "At 10h. 45m. a. m. a sharp shock of the dangerous or undulating kind occurred. The embassy has returned from China, and I am informed that the great shock was not felt at Lassa, so that it would appear to have been confined to India within the Himálaya."—ED.



^{*} Not by chronometer, but by a good-going clock, which stopped during the great ahock. Its pendulum vibrated north and south. [If the clock was set by the sun, the shock must have been 51m. earlier than in Calcutta.—Ed.]

Number of Lives lost and Buildings destroyed.

Sano gaon, none 0 40 stroyed. The modern-built garden houses of Harra Siddhi, 0 0 20 several members of the minister's family have Teshu gaon 0 0 16 handsome and ornamental edifice, has come to 24 the ground. Kúknah, 1 0 130					
Grounds,	Places.	Killed.	Wounded.	Houses.	Temples and other Buildings.
Grounds,	British Residency				
City of Kathmandú, South of Capital. South of Capital. Patan, 6 2 25 Sano gaon, none of Harra Siddhi, 0 0 0 Teshu gaon 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		none	none	1	none.
South of Capital. Patan,					Two pillars, built by the minister, each un-
South of Capital. Patan,					wards of 100 feet high : the large Temple of
Patan,	South of Capital.			'	Jagarnath, built by Ran Bahadur, after seven
Harra Siddhi, 0 0 0 20 several members of the minister's family have 25 been rendered untenantable; one of them, a 25 been rendered untenantable; one of them, a 16 handsome and ornamental edifice, has come to 24 the ground. Kúknah, 1 0 0 0 130	Patan,	6		285	years labour, and about a dozen temples, de-
Teshu gaon 0 0 0 16 handsome and ornamental edifice, has come to Pagrah. 0 0 24 the ground. Kúknah, 1 1 0 130 80 A crack in the ground of 20 feet in length Phurphing, 0 0 8 was observed at this village on the morning Of the 27th; the entire number of houses in Balf. 0 0 0 18 was 206, more than a third of the whole were destroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed and about 100 men have been much damaged. The injury sustained here is prodestroyed, and about 100 men have been much damaged. The injury sustained here is prodestroyed for the east of Kathmandú. Sasana, 0 0 0 7 Hills about Sasanelly, 0 0 0 20 East of Kathmandú in the valley. Bareh*, 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				40	stroyed. The modern-built garden houses of
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Pagah				25	bandsome and owner mental odifice has
Kūknah, 1 0 0 80 A crack in the ground of 20 feet in length Phurphing, 0 0 0 8 was observed at this village on the morning Chappa gaon, 0 0 0 8 was observed at this village on the morning of the 27th; the entire number of houses in it was 206, more than a third of the whole were 18 destroyed, and about 100 men have been much damaged. The injury sustained here is proportionally greater than in any other part not portionally greater than in any other part not 3 to the east of Kathmandú. Sasanelly, 0 0 0 25 Sana, 0 0 0 7 Hills about Sasanelly, 0 0 0 25 Sana, 0 0 0 7 Hills about Sasanelly, 0 0 0 20 East of Kathmandú in the valley. Deo Patan, 3 0 0 0 7 Hills about Sasanelly, 0 0 0 20 East of Kathmandú in the valley. Deo Patan, 3 0 0 0 0 20 East of Kathmandú in the valley. Deo Patan, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				24	the ground
Baghmati, 0 0 0 80 A crack in the ground of 20 feet in length 8 was observed at this village on the morning Chappa gaon, 0 0 0 7 8 was 206, more than a third of the whole were destroyed, and about 100 men have been much 35 damaged. The injury sustained here is pro-Bali, 0 0 0 3 Sasanelly, 0 0 0 2 2 5 Sana, 0 0 0 7 8 Sasanelly, 0 0 0 2 2 5 Sana, 0 0 0 7 8 Sasanelly, 0 0 0 2 2 5 Sana, 0 0 0 7 8 Sasanelly, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1 .			
Phurphing, 0 0 0 3 8 was observed at this village on the morning Chappa gaon, 0 0 0 8 35 of the 27th; the entire number of houses in it Peang, 0 0 0 8 8 was 206, more than a third of the whole were destroyed, and about 100 men have been much damaged. The injury sustained here is probable. O 0 20 25 Sana, 0 0 0 22 Sana, 0 0 0 20 Sasanelly, 0 0 0 25 Sana, 0 0 0 7 Hills about Sasanelly, 0 0 0 25 Sana, 0 0 0 7 Hills about Sasanelly, 0 0 0 20 Sasanelly, 0 0 0 20 Sasanelly, 0 0 0 20 Sana, 0 0 0 0 7 Sasanelly, 0 0 0 20 Sana, 0 0 0 0 7 Sasanelly, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Raghmeti				
Chappa gaon, 0 0 0 8 8 was 206, more than a third of the whole were Taibú, 0 0 0 18 destroyed, and about 100 men have been much damaged. The injury sustained here is proportionally greater than in any other part not part not part not part not state valley. Lúbú, 0 0 0 25 Sana, 0 0 0 7 Hills about Sasanelly, 0 0 0 25 Sana, 0 0 0 7 Hills about Sasanelly, 0 0 0 20 East of Kathmandú is the valley. Bareh*, 5 0 0 0 150 cumstance solely to the interference of the Solind goddess, in behalf of their favourite god, rather than to the stout deposition of brick and mortar. Changu, 0 0 0 5 Sankhû, 20 5 4 5 4 5 4 6 10 10 10 10 10 10 10 10 10 10 10 10 10					was observed at this village on the morning
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Taibú, 0 0 0 18 destroyed, and about 100 men have been much 35 damaged. The injury sustained here is proportionally greater than in any other part not to the east of Kathmandú. Sasanelly, 0 0 25 Sana, 0 0 7 Thills about Sasanelly, 0 0 25 Sana, 0 0 0 7 Thills about Sasanelly, 0 0 0 7 Thills about Sasanelly, 0 0 0 7 Thills about Sasanelly, 0 0 0 20 Thills above Sankhû, is reduced nearly to ruins. The total number of houses in Bhat gaon is reckoned by Mr. Hongson at 4,700, \$\frac{1}{2}\$ the town is said to be destroyed, 2,000 is the average of many accounts, six or eight fine temples destroyed, and a statue of Rajah Ramjir Mall, one of the Newar Princes of the Bhat gaon, 6 0 11 Panoutí, 18 0 19 Six persons were killed under the ruins of found where they had gone to sleep. Phulam Chok, 60 0 300 A fine temple destroyed here.		0	0	8	was 206, more than a third of the whole were
Balí, 0 0 0 3 portionally greater than in any other part not sasanelly, 0 0 0 25 Sansa, 0 0 0 7 Hills about Sasanelly, 0 0 0 20 Bast of Kathmandú in the valley. Deo Patan, 3 0 30 Handi gaon, 0 0 0 10 20 Bast of Kathmandú in the valley. Deo Patan, 3 0 30 Handi gaon, 0 0 0 10 20 Bareh*, 5 0 0 10 10 20 Handi gaon, 0 0 10 20 Inhabitants of Nipal. The building escaped unburt to the great joy of the rulers and people of the land, who attribute the circle cumstance solely to the interference of the blind goddess, in behalf of their favourite god, rather than to the stout deposition of brick and mortar. Changu, 20 5 45 Handsome Temple of Mahadeo, situated on a hill above Sankhú, is reduced nearly to ruins. Bhat gaon, 200 104 2000 Handsome Temple of Mahadeo, situated on a hill above Sankhú, is reduced nearly to ruins. Bhat gaon, 200 104 2000 Handsome Temple of Mahadeo, situated on a hill above Sankhú, is reduced nearly to ruins. The total number of houses in Bhat gaon is reckoned by Mr. Hongson at 4,700, 4th of the town is said to be destroyed, 2,000 is the average of many accounts, six or eight fine temples destroyed, and a statue of Rajah Ranjit Mall, one of the Newar Princes of the Bhat gaon division of the valley. Sangu, 2 0 10 20 20 20 20 20 20 20 20 20 20 20 20 20		0	0	18	destroyed, and about 100 men have been much
Pahon, 0 0 0 22 Lúbú, 0 0 0 25 Sana, 0 0 0 7 Hills about Sasanelly, 0 0 0 20 East of Kathmandú in the valley. Deo Patan, 3 0 20				35	damaged. The injury sustained here is pro-
Sasanelly,		1 ~		3	portionally greater than in any other part not
Lúbú,		1 .			1
Sana,					i
Hills about Sasanelly,					
ly,			"	′	
Bast of Kathmandú is the valley. Deo Patan. 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	20	!
the Temple of Paspatnáth, containing Pus- puti Jee, the patron deity of the Brahminical of handi gaon,		1	•		
the Temple of Paspatnáth, containing Pus- puti Jee, the patron deity of the Brahminical of handi gaon,	East of Kathmandi	i			At the eastern extremity of Deo Patan is
Handi gaon,		١.		١	the Temple of Paspatnath, containing Pus-
Nág Dèsa					
Barch*,		1 -			
Temi,				20	people of the land who ettribute the sin
Gon Karan,					
Changu,					
Changu,	Our Hanes,	1	"	"	
Sankhû,		1	l	1	
Bhat gaon,	Changu,	0	0	20	
Bhat gaon,			5	45	
Bhat gaon,		1	1	1	on a hill above Sankhu, is reduced nearly to
East of Kathmandú beyond the valley, but in theimmediate neighbourhood. Sangu	-		l		
East of Kathmandú beyond the valley, but in theimmediate neighbourhood. Sangu	Bhat gaon,	200	104	2000	
beyond the valley, but in the immediate neighbourhood. Sangu, 2 0 Baneppa, 10 0 20 Nala gaon, 6 0 11 Panouti, 18 0 19 Dulkele, 10 0 21 one house in this village, their remains were found where they had gone to sleep. Phulam Chok, 60 0 300 A fine temple destroyed here.	Post of Kathmands	اير	1	Į.	
but in theimmediate neighbourhood. Sangu,			i	1	
Reighbourhood. Sangu,			1	1	
Sangu,		1	1	1	JIT MALL, one of the Newar Princes of the
Baneppa,	_ •	. 2	0	8	
Nala gaon, 6 0 11 Panouti, 18 0 19 Dulkele, 10 0 21 one house in this village, their remains were found where they had gone to sleep. Phulam Chok, 60 0 300 A fine temple destroyed here.			0		
Dulkele, 10 0 21 one house in this village, their remains were found where they had gone to sleep. Phulam Chok, 60 0 300 A fine temple destroyed here.	Nala gaon,	. 6		1 .	
Phulam Chok, 60 0 300 A fine temple destroyed here.			1 -		
Phulam Chok, 60 0 300 A fine temple destroyed here.	Dulkele,	. 10	10	21	
rumam Chox, 60 0 300 A nine temple destroyed here.	Thulam Chale	60	1	200	
	Futuam Chok,	. 1 00	1 0		,

[•] One woman became Sattl at this village, her husband having been killed.

		 -		
Places.	Killed.	Wounded.	Houses.	Temples and other Buildings.
North-east of the valley and more remote. Dhulaka,		0	0	In this direction the earthquake was much more severely felt. Kúti, a town on the Bhote frontier, on the road to Lassa, is said to have been nearly all destroyed, it coatained about 600 houses; 50 of which only remain. At Listi gaon, also on the Bhote frontier, a large portion of a hill came down, and an iron bridge was destroyed. At Kan Sing Choke, in the same direction, vulgar report says, that for five days before the earthquake took place, noises similar to the firing of cannons were heard as if under ground: and in this neighbourhood the high road to Lassa is said to be in many places blocked up by the fallen earth from the mountains.
West of Kathmunds. Swambunath, Hål Chok, Narod Devi, Changu Narayan,	0 0 0	0 0 0	1	One small temple destroyed, and the large one a little injured. The form of the large one must have preserved it. It is the chief Buddhist Temple in the valley, built in the fashion of that religion—an immense circular mound of brick work, surmounted by
GoorkhaCantonment or Campoo, Kirtipur, Thankote,	0	0 0	14	a 4-sided spire or jweet. The house of a Captain much injured here. Contains 532 houses, and is built along the ridge and brow of a hill 300 feet higher than the surrounding part of the valley. Its tenements
West of the valley. Duny Byas and neighbouring hills. Tewanpur,	10	0 0	1 10	are old and frail. To account for its escape, the inhabitants say, "That some nights previ- lous to the earthquake, and on the memorable hight itself, a large tiger or leopard paraded
Nayakoth,	0	0	3	several streets of the town, without molest- ing any of the inhabitants. This forbearance was reciprocal, for the "guardian angel" was allowed to continue his protecting visits: the
Hukm gaon, Toka goan, Burha Nil Kanth, Chapaly,	0	0 0 0	15	
South of the valley. Chitlong,	0	0	14	
Mukwánpur,	0			of the breastwork facing the south has fallen, and the wall in many other places, although not fallen, is seriously injured.
		172	-	much less degree than the one at Chisanany,

The above shews that the earthquake was much more severe to the north and east of the valley than here; and that even within the valley it was much more violent to the east of Kathmandú than at the capital itself, or other places to the west of it. The town of Bhat ason is not more than eight miles in a straight line from Kathmandul, and even there its violence must have greatly exceeded what it was at the latter place. To account for the immense disproportion in the loss of life and property at both places, something may be allowed for the more frail state of the buildings at Bhat gaon; but this is not sufficient, and this circumstance must be considered as inexplicable as most others attending this fearful phenomenon. The brahmans of Nipal say (and it is believed with truth) that the occurrence of a more violent earthquake than this is recorded in their histories. It was about 600 years ago, and then the cities of Mangak, Patan, and innumerable towns were utterly destroyed and thousands of their inhabitants killed*: the modern capital Kathmanda did not then exist.

III.—Census of the Population of the City and District of Murshedabad, taken in 1829.

To the five or six accurate estimates which we possess of the population of the cities of India, we are happy to be able now to add one of Murshedabad, both city and district, which we owe to the private or ex-official industry of Mr. H. V. HATHORN, while magistrate of that zillah in 1829. The detailed statements accompanying this officer's letter to the Government will be published without doubt in the Transactions of the Asiatic Society, to which body they have been transferred: we proceed however, as on former occasions, to offer an abridged analysis of the tables, that the readers of the Journal may be in possession of all the accurate statistical knowledge of India furnished from authentic data. How easy would it be for every officer in charge

The Jyotishis say that the planets Jupiter and Saturn were at the occurrence of this present one in the same situation as when the above destructive one happened. From this greater mischief was for many days after the 26th hourly expected, and many lucky moments were fixed upon by the said astrologers for the catastrophe; but all fortunately have come to nought, and although slight shocks continued to recur until about the 15th instant, no addition has been made to the effects of the one great paroxysm of the 26th.

VI.—Further particulars of the Earthquake in Nepal. By A. Campbell,
Esq. Assistant Surgeon attached to the Residency.

In pursuance of the attempt made before to note the destructive effects of the earthquake of the 26th August last, throughout the valley of Nepal, and its immediate neighbourhood, and with the hope of shewing, as correctly as my information will permit, the probable seat or central point of the commotion, I beg to offer the following memoranda of other places at which the shock was experienced, as well as its comparative degree of intensity at each.

The means of estimating the violence of this phenomenon are of course most defective, if not wholly inadequate to the purpose; but in absence of better data, the ascertained amount of damage done to the frail and perishable works of man, may be received as an index of its intensity at one place, compared with that of another, and in conformity to this mode, it would appear, that the most extreme violence of the shock, as far as its occurrence is as yet known, was expended within a tract of country extending from this side of the great Himálayan range on the north, to the course of the Ganges on the south, and from the Arún river (in the Nepal hills) on the east, to the western branches of the Trisúl Ganga on the west, comprising a space of about 200 miles from north to south, and 150 from east to west. In this space, the valley of Nepal, though not geographically the centre point, is most assuredly the portion that has suffered the greatest violence of the calamity; and, unless the inexplicable producing causes have been expended in the frequent and severe shocks that have to this day continued to recur, we may from our experience of the progress of earthquakes in other parts of the world, with reason, as we ought with resignation, look forward to further and more violent exhibitions of the same terrible nature.

In the notice of the earthquake by the Secretary of the Asiatic Society, in his Journal for August, he expressed a belief, that the greatest intensity of the shock would be found to have occured beyond the Himálaya, in the direction of Lassa; and judging by the direction from which the shock was felt to have proceeded, and its intensity in the valley of Nepal, such was the probability, though other has turned out to be the fact, and that upon good authority

The recent return from Pekin of an Embassy from Nepal, to the court of the Celestial Emperor, has furnished authentic information on this subject, which otherwise might have been long wanting; and the whole tenor of it shews that the great Himálayan range itself, and the country



on this side of it, was alone the theatre of the earthquake's presence. and that it was not even in the alightest degree felt beyond a very short distance on the Tibetan side of those huge mountains. The Embassy was at Lassa, on the 26th of August, when and where the shock was not experienced. At Digarchi, in the following month, it first received accounts of its occurrence from Nepal; to the inhabitants of that place the circumstance was known only from reports brought from this side of the mountains; along the road from Digarchi, the answer to all inquiries was the same. "No earthquake on the 26th of August." and not until its arrival at Tingri was it found that the shock had been felt. Tingri is a small Chinese post, immediately beyond the great Himalava, and the first stage on the table land (as it is called) of Tibet, going from hence to Lassa, (by the Kúti or eastern pass from the valley of Nepal.) From Tingré to Kirung, a distance of 8 or 10 marches, the route is nearly due west, running along; and through the northern side of the Himalaya, and throughout this tract. though but thinly inhabited, authentic reports of the occurrence of the shock were received. By Kirung (the eastern pass from the valley into Bhote), the Mission penetrated the great range, and at each stage (four in number through the pass), intelligence of the occurrence was communicated by the few individuals who inhabit that wild and sterile region. But such information was not required, as its effects were sufficiently manifest: in the village of Kirung itself, supposed to contain 400 houses, 60 were fairly demolished, and many more seriously injured: two men had been killed under the ruins of their houses, and about a dozen wounded. From the exit of the pass to Kathmanda there are no towns along the route, and scarcely any villages; but at many places, insulated houses of the mountaineers had been thrown down, and the precipitous banks of hills and mountains had been hurled into the subjacent valleys.

This shews the extent of damage done towards the north, and enables us to fix upon the line of *Tingri* (Lat. 28°) as the northern limit, of the earthquake's presence, and reports would shew that of *Jabahpir* and *Calcutta* to have been the southern one. *Rangpur** defines the east and Dehli the west.

North-east from Kathmandú, as far as Dúlka and Kúti, the violence of the shock would seem to have been greater than in the valley. West from Kathmandú it diminished at every step. At Gorkha, only two houses were destroyed; at Palpa, none; and at Dotí, on the borders of Kemaon, the shock was felt, but not by any means severely. It will

^{*} Mr. Walters informs me that it was also felt at Chittagong .- ED.



strike every one as remarkable, that while here, the shock was more violent than elsewhere, its effects should not have been felt equally at as great a distance from hence to the north as to the south. Why this? is the natural question, but who can answer where all are in darkness. Other explosive forces spread equally in all directions, this did not: granting that the centre was where the violence was greatest. the south, the country is a level, uninterrupted plain, calculated to facilitate the rapid transmission of the agitating force, while to the north are the mightiest mountains of the world; it may therefore be supposed, that the quantity of force expended in reaching to the summits of the Himalayan peaks, and in shaking like molebills the whole of the mountain region around, could not be far short in intensity of that required to agitate slightly the plains to the southward, even to the distance above recorded. In this light, it may be imagined, that the explosive force may have spread itself equally on all sides, the greater surface distance to which it reached towards the south being balanced by the immense vertical spaces it traversed in shaking from their bases to their summits the innumerable hills and mountains of the extensive region lying between the plains of Hindustan and those of Tibet.

I subjoin an accurate register of the shocks which have occurred up to this date, given me by Captain Robinson. Many of them have been severe, and throughout the whole course of these visitations, there have been two distinct varieties observed in the character of the shocks: all those at the commencement were of undulatory or swinging kind; the others wanted this swell, and were a violent up and down shaking, with little lateral, motion. The first may be called the horizontal, the latter the vertical, variety. The former alone have been destructive to property, while the latter, from the greater noise by which they are accompanied, and the more rapid oscillations of the ground, are perhaps the more terrifying.

Aegister of Barthquakes experienced at Kathmandú, from 26th August to 26th November, 1833, inclusive.

Date.		Time.	Remarks.		
August	Ī	One at 5h. 55m. P. M. another at 10h. 50m. P. M. 10-58 P. M. was the timethe greatone commenced, and lits duration was three minutes.	All of the undulating kind, as well as nine others that occurred during the same night.		
	27th,	4-53 A. M. 5-20 A. M. 5-26 A. M.			
		7-15 A. M. 4-55 P. M. 4 shocks, one at 9 A. M.	Also undulatory.		
		2 during the night,	Slight.		
Sept. 1, 1		10 shocks,	Slight.		
October	4th,	7-30 A. M. a smart one, I minute's duration.	This was a severe one, and of the vertical kind; it was felt at Gorakhpur and Allahabad.		

Date.	Time.	Remarks.		
October 18th,	1-55, P. M. severe, and ushered in with a loud noise.	Same character as last one; was felt slightly at Allahabad, lasted here at least a minute.		
November 8th. 16th,		This was of the up and down kind, lasted a minute, and occurring at the full moon, when the whole people of Nepal were praying at Pasputnath, excited a great commotion, and was the only instance where the prophecies of the Brahmins were realized, although a bundred lucky moments had for the last three months been determined on for the occurrence of violent shocks.		

VII.—Note on the Fossil Palms and Shells lately discovered on the Tableland of Ságar, in Central India. By H. H. Spry, Esq. Bengal Medical Service.

[Read at the Meeting of the 26th December.]

Some months since, when I forwarded a specimen of the silicified palm trees, I stated that the trap hills about Ságar, which are at an elevation of upwards of 2000 feet above the sea, formed an amphitheatre, not however in one continuous circle, but with here and there a break. Within this circle of trap hills, I ought to have stated that a second jutted out of compact red sandstone, but of a less elevated extent, being portions of the great Vindya range.

I took occasion to advert to the former of these two formations, because it was at the foot of the portion that ranges along the Jabal-par road: the limestone bed (travertine and crystallized calcareous spar) projects; on which, mixed with the trap debris, the silicified fossil trees are found. I lay stress on the word silicified, for it seems singular that silex should be the fossilizing mineral of remains found on a calcareous bed. It would seem to indicate that the bed these remains now repose on could not have been the place of their growth*, but that they must have been projected from a distance; and yet the distance could not have been great, for although the splintered condition of the trunks would indicate that a powerful force had been applied, the attachment still of all the tender tendrils, so peculiar to the palmata species, to the thicker parts of the roots, and which, though perfectly fossilized, may

^{*} The constant occurrence of flints in chalk is sufficient to outweigh this objection.—En.