#### Assessment of Value Variations in Compensation of Mineral Land in Bin Yauri and Garin Awwal, Kebbi State

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Received: 23/09/2023 Revised: 28/09/2023 Accepted: 26/05/2024

The rising issue of variation in value of land has continued to affect fair compensation for acquired mineral land. Therefore, this study examined three ways of assessing the value of mineral land for compensation in Kebbi State, Nigeria. Data were sourced from both the primary and secondary sources. The sampling method was purposive which deals strictly with those that were affected by the mining activities. Questionnaire was used to obtain information on the amount negotiated as compensation value from a sample size of 72 claimants out of a sample frame of 138, while values based on Nigeria Minerals and Mining Act, 2007 and World Bank Operational Policy 4.12 were calculated based on criteria of each respectively. The three values obtained were subjected to one-way ANOVA test of significant differences. The results showed that there is a significant differences in the compensation values obtained using existing practice (Negotiation), legal provisions (NMM Act, 2007) and international standard practice (Word Bank Operational Policy 4.12), with each of the three methods having a p-value of 0.000 which is less than 0.05 {F (21) = 32.986, p < 0.05);F (50) =14659.2, p < 0.05);F (71) = 2475.276, p < 0.05} respectively. The study recommends that claimants should engage experts to value their land before going in for negotiation as this will give them a base on which to leverage their negotiation.

Keywords: Claimants, Compensation, Mineral land, Mining, Variation

https://dx.doi.org/10.4314/etsj.v15i1.14

#### **INTRODUCTION**

Mining activities, most especially surface mining require large tracts of land during mineral exploitation processes (Ayitey et al., 2011). However, in order to obtain land when and where it is needed in Nigeria, section 28 (1) of the Land Use Act 1978 gave the government the power of compulsory acquisition of land. Compulsory acquisition of land by the Federal, State or Local Government is for overriding public interest and includes the requirement of land for mining purposes, oil pipelines or public purposes (Oludayo, 2011). Depriving people access to their lands (compulsory acquisition by the government) can affect them greatly, especially in mining communities where a huge scale of excavation has led to a complete change of landform suitable for agriculture (Awudi, 2002). Therefore, compulsory acquisition of land necessarily implies the constitutional and statutory obligation to pay compensation to the landowner, whether an individual, family or community (Oludayo, 2011). In another word, compensation remains a crucial precondition for the compulsory acquisition of land in many jurisdictions across the world (Kidido et al., 2015). However, when the compensation is paid, it is usually insufficient in terms of the value of the land compulsorily acquired and for which compensation is being paid, as a result of a lack of appropriate valuation of and compensation for lost assets (Asian Development Bank, 2007). This is as a result of compensation valuation being a complex issue with its

attendant problems of its classification as statutory the bases of which are determined through various enactments, laws, policies and regulations, rather than through independent professional processes (JerryDeebom & Kakulu, 2021).

Numerous scholars have carried out studies on mineral land compensation; Chang (2011) revealed that both the desired compensation by the expropriated and the expropriator are above the Fair Market Value that was calculated in New York and suggests focus should be more on the assessment methods. The study of Kidido et al. (2015) concluded there is no clarity as to who among the stakeholders is rightfully entitled to receive compensation for the deprivation of the use of mineral land in Ghana and recommended that a legislative instrument is required to clearly outline the eligible beneficiaries for compensation under various possible heads of claim. John and Samuel (2018) revealed a wide discrepancy between communities' perceptions and mining company compensation practices and weak enforcement of mining legislation in Ghana. The study concluded that the imbalance has negative implication for community-mining company relations and threatens sustainable mining operation. It thus recommended rigorous enforcement of legislation and improved CSR packages by mines as mean of bridging the gap between communities' perception and compensation practice.

Gilbertson (2020) showed that multinational coal mining industry provided just enough compensation to

satisfy legal requirements in the Northeast Caribbean Colombian coal mining region and concluded that compensation projects obfuscate the direct, structural and cultural violence of coal mining by diverting community-based legal resistance strategies, dividing impacted communities and distracting public attention away from direct and structural violence enacted upon human and nonhuman nature. Twerefou and Ayimpusah (2021) while examining the determinants of satisfaction of compensation packages in Ghanaian mining communities emphasised that an improved and highly improved mining effect on livelihood increases the likelihood of households being satisfied with compensation packages by 19.4 and 24% respectively and urge the government to improve compensation negotiation process by educating communities on the compensation regulation.

Gilbert et al. (2021) revealed that consultation and compensation processes for rectifying mining damages and methods of providing and renewals of environmental licenses to operate are flawed in Colombia's coal mining region of La Guajira and stated that corporate and state-backed consultation and compensation projects are incommensurable with the damage caused by coal mining operations. In a related development, Uche and Khalid (2022) revealed how the institution of compensation committees undermined compensation fair in Ghana by adopting inconsistencies between talks, decisions, and action with respect to compensation committees to facilitate, manage and defend unfair compensation. In Nigeria, studies on compensation of mineral land were centred on environmental contamination, particularly oil spills and infrastructural developments (Fekumo 2001; Akujuru 2005; Akujuru & Baridoma 2007; Kakulu 2008; Ige & Oladapo 2018; Olukolajo 2019). In Kebbi State, compensation assessment for acquired land for mining activities is determined by negotiations. This may not be unconnected with the acquiring authorities and the land owners being oblivious to the actual value of such land before agreeing to any compensation due to the absence of professionals charged with such responsibilities. Whereas, Nigerian Minerals and Mining Act of 2007, provides that the amount of the compensation payable shall be determined by the Mining Cadastre Officer after consultation with the State Minerals Resource and Environmental Management Committee and a Government licensed Valuer. However, the World Bank in providing support to the preparation of a strategic roadmap for mining sector development in Nigeria under the Mining Mineral Sector Support for Economic Diversification Project (MinDiver) adopted compensation assessment Operational Policy 4.12 which is one of the acclaimed international standard in compensation assessment (Abdulazeez, 2023). This situation has resulted in three

ways of valuing mineral land for compensation, thus, the research question - is there any variation in the values arrived at using these three different valuation approaches? Therefore, the focus of this study is to examine whether there is variation in the values of compensation arrived at using existing practice (negotiation), legal provisions and international standard practice using Bin Yauri and Garin Awwal in Kebbi State as the study area.

#### LITERATURE REVIEW

#### Concepts of Mineral Resources and Mineral Land

Minerals are chemical elements and compounds that have been formed through inorganic processes (Sani et al., 2019). According to Nordhaus and Kokkelenberg (1999), mineral resources is a concentration of naturally occurring solid, liquid, or gaseous material, in or on the earth's crust, in such form and amount that economic extraction of a commodity from the concentration is currently or potentially feasible. However, the Nigerian Mining/Minerals Act No. 34 of 1999 defined minerals as substances whether in solid, liquid or gaseous form occurring in or on the earth; formed by or subjected to geological processes including occurrences or deposits of rocks, coal, coal bed gases, bituminous shale, tar sands, any substances that may be extracted from coal, slate or tar sand, mineral water, and mineral components in tailings or waste piles, but with the exclusion of petroleum and waters without mineral content. By the Act, minerals exclude petroleum but would include natural gas such as coal bed methane gas. Minerals are by definition not a part of the land, nevertheless, land has to be penetrated or worked upon to access the minerals. Thus "mineral land" is not and cannot be known until a mineral is discovered through mineral prospecting. Upon discovery of minerals on the land, the land turns into a "mineral land," overriding all categories of land except conservation areas in the reserved land category (Lugoe, 2012).

#### **Concepts of Compensation**

The principle underlying compensation was expressed by Lord Justice Scott in the case of Horn v Sunderland Corporation as reported in Omotola (1984):

> Compensation is the right to be put, so far as money can do it, in the same position as if his land had not been taken from him. In other words, he gains a monetary payment not less than the loss imposed on him in the public interest, but, on the other hand, no greater.

Belachew (2013) defined compensation as full indemnity or remuneration for the loss or damage sustained by the owner of the property taken or injured for public use. It denotes some form of restitution which attempts to place a property owner, as near as possible to the position he would have been had his property not been acquired for public purposes (Otubu 2014). In theory, compensation makes the injured person whole; it aims at repaying for losses and should therefore be based on principles of equity and equivalence. The sum payable may represent a sum not only for the land taken but also for other losses suffered as a result of the acquisition of the property (Alias & Daud, 2016).Compensation is the way of putting land owners or occupants whose lands have been acquired compulsorily by the government in the position they were before their lands were acquired through re-settlement or monetary means (John & Samuel, 2018). According to the Australian Property Institute and New Zealand Institute of Valuers' guidance paper (ANZVGP, 2021), the assessment of compensation is to put the claimant back into the same position as it was before the compulsory acquisition, as far as money can do it, while the subject of the assessment is not simply the property, rather the claim of the claimant for compensation. This could include the value of the interest being acquired to the claimant, including claims under various other heads such as any special value, reinstatement and disturbance which include any disadvantage resulting from relocation. This may also apply to severance and injurious affection. Conceptually, when private property is acquired by the State, compensation is paid not only for the actual loss of the land but also for other socioeconomic losses occasioned by the act.

#### Value Variance in Compensation Valuation

Studies on value variance in compensation valuation for compulsory land acquisition and environmental damages abound. Hordijk and Van De Ridder (2005) examined the Valuation model uniformity and consistency in real estate indices: the case of the Netherlands. The study revealed that differences in compensation values estimated by valuers representing the expropriating authority and the displaced people are caused by adopting different assumptions on variables used when calculating the compensation. Kakulu (2008) examined the assessment of compensation in the compulsory acquisition of oil and gas-bearing lands: The Niger Delta experience. The study established that the application of multiple standards, procedures and methods of valuation results in alarmingly wide discrepancies in compensation values over the same interest in land.

Udoekanem (2013) studied the effect of land policy on compensation for environmental damage caused by gas flare in the Niger Delta region of Nigeria. The result of the study showed that compensation determined based on the basic valuation methods was far higher than those determined based on the provision on the Land Use Act of 1978. Similarly, Oladapo and Ige (2014) examined the assessment of claimants' satisfaction with the variation in compensation paid for compulsory land acquisition in Ondo State, Nigeria. The research revealed a wide disparity between the mean of compensation paid and the market value of the acquired property. Also, Bello and Thomas, (2015) examined variance in the valuation of commercial properties among Estate Surveyors and Valuers in Lagos Metropolis. The study indicated that the coefficient of variation of valuers' opinion lies within +5% to 11% in the Lagos Metropolis and that the pvalue (0.129) is > 0.05. Bello and Olanrele (2016) examined the value gap in Nigerian property compensation practice: measurement and economic effects. The findings indicated a gap in the value of above 41% between the claimant's valuers and the government's valuers. Ige and Oladapo (2018) studied variation in compensation for compulsory property acquisition in Ondo state; the Nigeria experience. Comparing the means between compensation offered to the affected property owners by the government and the private valuer's value. It was found that a significant difference existed in the compensation paid by the government to the affected property owners and the value arrived at by the private estate surveyors and valuers.

Holtslag-Broekhof et al. (2018) worked on exploring the valuation of compulsory purchase compensation. The study attributed the problem of vast differences in the property value of compensation to different systems of valuation and different interpretations of ambiguous laws guiding expropriation and compensation. Okolo et al. (2020) carried out assessment of variations in oil spill compensation valuations in Rivers State, Nigeria. The findings indicated a variation of 22.36% and 37.49% in the valuations of fishing rights and economic trees respectively. Also, Partson et al. (2021) conducted a study on consistency and fairness of property valuation for compensation for land and improvements in Zimbabwe. The findings revealed evidence of wide gaps (variations) in the valuation estimates of designated valuation officers and private valuers compared to those of the independent valuation experts authorised by the courts. In addition, Amposah et al. (2023) examined compensation for farms compulsorily acquired for mining in Ghana. The result revealed that the lack of expressed standards for assessing compensation for mining-impacted crops has occasioned variations in the valuation methods and by extension the values arrived at.

#### **Study Area**

Yauri and Fakai Local Government Areas of Kebbi State, Nigeria, are located between latitudes 10°10'N and 11°40'N of the equator and longitude 3°30'E and 5°10'E of the Greenwich meridian respectively. The study area falls within a vast, geologically well-noted zone called Yelwa-Zuru in the north-west of Nigeria (Abubukar et al., 2020). Both Bin Yauri and Garin Awwal fall to the Yelwa-Zuru deposit of schist belts of north-west Nigeria. They are both of vein-type quartzsulphide carbonate gold mineralization hosted by a brittle fault zone. The areas are characterized by flat topography with a few elevated areas. It is an extension of the Sokoto plain, dotted with some doom-shaped hills and complemented by a portion of the great river Niger and its numerous tributaries, which gently meanders on the landscape (Udu, 1991).

#### **RESEARCH METHODOLOGY**

The study is a survey and descriptive research which involves questionnaires administered to the target population to extract the necessary information for the study. The target population for this study consists of compensation Claimants in both Bin Yauri and Garin Awwal in Kebbi State, Nigeria. The sampling method adopted was purposive which deals strictly with those that were affected by the mining activities. A total of 138 questionnaires were administered, however, due to the insecurity as a result of bandits' activities in this part of the country, only 72 questionnaires, representing 52% were retrieved and adopted for analysis (Table 1).

Location	Questionnaires administered	Questionnaires returned	%
Bin Yauri	60	32	53.33
Garin Awwal	78	40	51.28
Total	138	72	52.17

Damages and losses incurred as a result of the acquisition of land for mining activities and the amount negotiated and received as compensation by individual claimants were obtained through the questionnaire. Computation of the compensation based on the criteria in the Nigerian Minerals and Mining Act, 2007 and World Bank Operational Policy 4.12 were conducted to establish the amount of compensation due to individual claimants.

In calculating the compensation value using the NMM Act 2007, the farmland compensation rate (400,000/hectare) (Appendix A) and rates for economic

trees (Appendix B) provided by the Kebbi state government were adopted as value for the surface right of the landowner and rates of economic trees respectively. Cash/food crops were not considered because landowners were at the privilege to harvest their crops before the commencement of mining activities. Thus, the total number of economic trees on the land was multiplied by the applicable rate and added to the land surface right value of the landowner to arrive at the compensation value as shown in Table 2.

Table 2: Compensation Values Based on Legislation (NMM	Act. 2007)	1
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Claimant 1.	Claimant 2
Land Size $-2000m^2$ (0.2 hect.) = 80,000	Land size $-750m^2(0.075 \text{ hect}) = 30,000$
Economic trees:	Economic trees:
i.1Mango (matured)@10000/stand= 10,000	i.1Neam (matured)@ 4000/stand= 4,000
ii.1Dorawa (matured) @10000/stand= 10,000	ii.1Dorawa (matured) @ 10000/stand= 10,000
iii.1Shearbutter(mat) @ 10000/stand = 10,000	Crop:
Crop:	i. Maize = $(2 \text{ bags } @ \text{ harvest}) = \text{Nil}$
i. Guinea corn = 4bags @ harvest = Nil	Compensation Value = N44,000
Compensation Value $=$ $\mathbb{N}110,000$	
Claimant 3	Claimant 4
Land size $-$ 1 Hect. $= 400,000$	Land size $-1.2$ Hect. = 480,000
Economic trees:	Economic trees:
i.4 Mango (matured)@10000/stand= 40,000	i. 2 Dorawa (matured)@10000/stand= 20,000
ii.7Cashew (matured) @10000/stand = 70,000	ii.2 Mango (matured)@10000/stand = 20,000
iii.17Cashew(medium)@3000/stand = 51,000	iii.1Mango (medium)@4,5000/stand = 4,500
Crop:	iv 3Shear but(mat.)@10,000/stand =30,000
i.Corn3 Bags @ harvest = Nil	v.2Cashew(matured) @10,000/stand=20,000
Compensation Value = <del>N561,000</del>	vi.1 Cashew (medium)@3000/stand = 3000

	Crops – None		
	Compensation Value= - 1577,500		
Claimant 5	Claimant 72		
Land size $1350m^2$ (0.135 Hect) = 54,000	Land Size - 0.325 hect.= 130,000		
Economic trees:			
i.2 Mango (matured)@10,000/stand = 20,000	Crop:		
ii.3 Shear butter(mat.)@10,000/stand=20,000	i.Groundnut - 6 Bags@ harvest = Nil		
iii.1Dadawa (mat.) @10000/stand= 10000	Compensation Value = ¥ 130,000		
Crop:	-		
i. Maize– 2 Bags @ harvest = Nil			
Compensation Value= N104,000			

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In the case of World Bank Policy 4.12, the criterion is that where land replacement is not possible or available, then cash compensation at full replacement value as well as disturbance allowance of 10% suffices. The economic trees compensation is the market value of the trees, which was calculated based on the annual net income generated from the trees and 5% yield in perpetuity. For cash/food crops, compensation was at the full market value of the crop's yield on the land. All these were summed together to arrive at the value as presented in Table 3.

#### Table 3: Compensation Values Based on International Standards (World Bank Policy 4.12)

Claimant 1 Land Size  $-2000m^2$  (0.2 Hect.) = 80,000 Disturbance @10% = 8000 Economic trees: i.1Mango @ 2,500/a x 20=50,000 ii.1Dorawa @ 2,000/a x 20 = 40,000 iii. 1Shea butter @ 5000/a x 20 = 55,000 Crops: 4 Bag of G/corn @ 9000/bag = 36.000Compensation Value=N269,000 **Claimant 3** Land size -1 Hect.= 400,000 Disturbance @10% = 40.000Economic trees: i.4 Mango @ 3,125/a x 20 = 250.000ii. 2 Mango @ 4,000/a x 20 = 80,000 iii.7 Cashew @ 1,964/a x 20 = 275,000iv. 15 Cashew @ 1200/a x 20 =300,000 Crops-3 Bags of corn @5000/bag =15,000Compensation Value<sub>N1,360,000</sub> Claimant 5..... Land size0.135Hect.= 54,000 Disturbance @10% = 5.400Economic trees: i.2 Mango @1,500/ax 20 = 100,000ii.3 Shear butter @2,750/ax 20 = 165.000iii.1 Dadawa@ 6,000/a x 20 = 120,000Crops: 2 Bags of maize @5000/bag = 10,000**Compensation Value** = N454,400

Claimant 2 Land size– $750m^2(0.075 \text{ Hect})$ . = 30,000 Disturbance @10% = 3000 Economic trees: i.1 Neam - 1,500/a x 20 = 30,000 ii.1Dorawa - 2000/a x 20 = 40,000 Crops: 2 Bags of maize @5000/bag = 10,000 Compensation Value=**N113,000** 

#### Claimant 4

Land size 1.2 Hect. = 480.000Disturbance @10% = 48000Economic trees: i.2 Dorawa @4000/a x 20 = 80.000 ii.3 Mango @2,500/a x 20 = 150,000 iii.1 Mango @2,250/a x 20 = 45,000 iv.3 Shear but @1,950/a x 20 = 117,000 v.2 Cashew @2,750/a x 20 = 110,000 vi.1 Cashew @1.650/a x 20 = 33,000Compensation Value<sub>N1,063,000</sub> .....Claimant 72 Land size - 0.325 Hect.= 130,000 Disturbance @10% = 13,000 Crops: 6 Bags of G/Nuts @8000/bag = 48,000**Compensation Value** = <del>N</del>191,000

Analysis of variance (ANOVA) was employed to test if there was no significant difference within the values arrived at using the existing method (negotiation), legal provisions and international standard practice.

#### **RESULTS AND DISCUSSION**

Table 4 shows the demographic/socioeconomic information of the claimants assessed for analysis in the study areas. The majority (70.83%) of the

claimants' age were in the age bracket of 61-70 years, followed by the age bracket of 51-60 years22.22%, while the 41-50 years age bracket was 6.94%. These showed that the respondents were of age and could adequately respond to questions affecting them. Also,

analysis of the years of residing in the study area revealed that all the respondents have stayed in the study area for over 31 years, thus, long enough to provide answers to research enquiries on their land.

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Ages of Respondents		%	
Below 30 years	0	0	
30-40 years	0	0	
41-50 years	5	6.94	
51-60 years	16	22.22	
61-70 years	51	70.83	
Educational Levels of Respondents			
Islamic education	56	77.78	
Primary education	16	22.22	
Secondary education	0	0	
Tertiary education	0	0	
Occupational status of respondents			
Civil servant	0	0	
Trader	0	0	
Farmer	69	95.83	
Miner	0	0	
Retiree	0	0	
Others	3	4.17	
Years of residing in the mining area			
Below 11 years	0	0	
11-20 years	0	0	
21-30 years	0	0	
31-40 years	2	2.77	
41-50 years	21	29.16	
50 years above	49	68.05	

Table 4: Demographic/Social Economic Background of the Claimants

#### Compensation Values Using Existing Practice, Legal Provisions and International Standard Practice

Data on existing practice (Negotiation) was obtained directly from the individual claimants in the study area, while computation based on criteria in the legal provisions (NMM Act 2007) and international standard practice (World Bank Operational Policy 4.12) were carried out to arrive at the values due to each claimants and values summary presented in Table 5.

Table 5 revealed that claimant 1 was paid N65,000 while the calculated amount by legal provision and international best practice is N110,000 and N269,000 respectively. Claimant 2 received N15,000 as compensation based on existing practice while the calculated amount using legal provisions and international best standards are N44,000 and N113,000 respectively. Also, claimant 6 was paid N68,000 as compensation amount while the calculated amount by legal provision and international best practice is N110,000 and N336,000. This showed that the

application of different standards and methods of valuations resulted in discrepancies in compensation values of the same interest in land. This revelation is in tandem with the study of Kakulu (2008) which showed that the application of multiple standards, procedures and methods of valuation results in alarmingly wide discrepancies in compensation values over the same interest in land. Also, the study revealed that the amount paid by the negotiation method is lower compared to the calculated amount by legal provisions and international best standards. Therefore, the negotiated amount paid to the claimants in the study areas was inadequate compared to what it would have been if legal provisions or international best standard was applied. This finding is in tandem with the finding of Akujuru and Ruddock (2014) that land owners were paid compensations that did not meet the minimum standard of equivalence as the compensation they were paid fell far short of both legal provision and international standard best practice.

Claimanta	Existing (Nogotisted)	I agal Drowisians	International Standard Deastica
Claimants	Existing (negotiated)	(Minoral Act)	(World Book OD4 12)
	N	(Ivimeral ACt) N	(WOHU DAIIK UP4.12) N
	+++ *	**	**
1	65,000	110.000	260.000
1	15,000	110,000	112,000
2	160,000	44,000 501,000	1 260 000
3	200,000	501,000	1,500,000
4	200,000	577,500	1,003,000
5	65,000	107,000	434,400
0	68,000 70,000	110,000	330,000
/	70,000	1/0,380	327,068
8	20,000	40,000	44,000
9	25,000	50,000	114,000
10	20,000	30,000	65,000
	80,000	190,000	419,000
12	65,000	220,000	370,000
13	95,000	278,000	326,000
14	120,000	275,000	698,800
15	60,000	146,000	423,200
16	60,000	140,000	397,000
17	200,000	484,000	1,337,600
18	80,000	243,000	1,160,800
19	80,000	130,000	191,000
20	40,000	91,000	234,120
21	100,000	212,000	467,200
22	92,000	254,000	1,002,400
23	30,000	56,000	149,600
24	85,000	190,000	460,000
25	80,000	199,200	489,120
26	160,000	501,000	1,360,000
27	120,000	212,000	467,200
28	65,000	220,000	370,000
29	90.000	278.000	326.000
30	140,000	212,000	467,200
31	68,000	110.000	336.600
32	60.000	130.000	191.000
33	40.000	91.000	234.120
34	80.000	190,000	460.000
35	100.000	199.200	489.120
36	90.000	190.000	460.000
37	20.000	40.000	44,000
38	75,000	146,000	423 200
39	120,000	212 000	467 200
40	98,000	190,000	460,000
40	175,000	484,000	1 337 600
	55,000	91 000	23/ 120
∠ /3	36 500	56,000	1/0 600
<del>ч</del> 3 44	32,000	50,000	147,000
44 15	52,000 80,000	107.000	114,000
4J 16	00,000 42,000	107,000 56,000	434,400
40 47	43,000	30,000 254,000	149,000
4/	115,000	254,000	1,002,400
4ð	225,000	484,000	1,337,000
49	220,000	501,000	1,360,000
50	80,000	110,000	336,600
51	90.000	278.000	326.000

Table 5: Summary of Values of Existing Practice, Legal Provision and International Standard

52	85,000	220,000	370,000	
53	110,000	254,000	1,002,400	
54	80,000	278,000	326,000	
55	30,000	91,000	234,120	
56	170,000	275,000	698,800	
57	230,000	577,500	1,063,000	
58	95,000	190,000	460,000	
59	90,000	243,000	1,160,800	
60	90,000	199,200	489,120	
61	72,000	146,000	423,200	
62	80,000	243,000	1,160,800	
63	95,000	278,000	326,000	
64	80,000	220,000	370,000	
65	100,000	275,000	698,800	
66	90,000	170,000	327,068	
67	85,000	140,000	397,000	
68	80,000	110,000	336,600	
69	75,000	146,000	423,200	
70	110,000	243,000	1,160,800	
71	100,000	278,000	326,000	
72	75,000	130,000	191,000	

Source: \* Field survey, 2023; \*\*Calculated

#### Analysis of Variance (ANOVA)

Furthermore, the study conducted an ANOVA to examine whether the differences in compensation values based on the three methods: existing practice, legal provisions, and international standard practice are significant.

The ANOVA results indicated that there is a significant difference in the compensation values obtained using the three approaches. {F (21) = 32.986, p < 0.05; F (50) = 14659.2, p < 0 .05; F (71) = 2475.276, p < 0.05}. Since each of the three methods (negotiation, legal

provisions and international standard practice) has a pvalue of 0.000 which is less than 0.05 (p < 0.05), therefore, there is a significant difference within the compensation values obtained using existing practice, legal provisions and international best standard. This finding is in agreement with the study of Amaechi and Ifeanyi (2019) where it was noted that the practices of compensation assessment in Nigeria were not consistent with the global best practice even when they were made in line with the guiding laws.

Гab	le	6: (	)ne-way	' ANOVA	test of	f significant	difference
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Variable	Df	F	P-value	Decision
Existing practice (Negotiation)	21	32.986	0.000	Significant
Legal provisions	50	14659.2	0.000	Significant
International standard practice	71	2475.276	0.000	Significant

#### CONCLUSION

The study concludes that there are variations between the values of compensation paid to the claimants through negotiation and the values of compensation arrived at using the legal provisions and international standard best practices in the study areas. Thus, the current compensation practices in the study areas do not align with fair and just compensation principles thus, leaving claimants financially short changed and disadvantaged. The implication is that land owners were paid compensations that do not meet the minimum standard of equivalence. There were differences in the amount paid as compensation (by negotiation) compare to what the claimants were supposed to be paid under the legal provisions and international best practice. The study recommends that claimants should engage professionals such as Estate Surveyors and Valuers to value their land before going in for negotiation as this will give them a base on which to leverage their negotiation.

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## APPENDIX A

# FARM LANDCOMPENSATION IN KEBBI STATE (2022)

	LAND	(2022)
1.	B/kebbi	# 1,000,000:00
2.	Argungu, Jega, Yauri, Koko & Zuru	# 700,000:00
3.	Other urban center Include Kalgo, Bunza, Kangiwa, Kamba etc.	# 500,000:00
4.	Rural areas	# 400,000:90
5.	Fadama land	# 500,000:00

40000 U'S

### **APPENDIX B**

# ECONOMI TREES COMPENSATION RATES- (2022)

S/N	BOTANICAL NAME	HAUSA NAME	LESS THEN TEN (10) YRS	OVER TEN (10 )YRS
1	Mangi Fera Indica	Mangoro	4,500:00	10,000:00
1.	Ctrust SPP	Lemu	2,500:00	10,000:00
2.	Psidium Guava	Gwiba	1,500:00	6,000:00
4.	Parkia Biglobosa	Dorawa	4,000:00	10,000:00
5	Vitellaria Paradoxum	Kade SBritter	4,000:00	10,000.00
6	Termirindus Indica	Tsamiya	2,500:00	10,000:00
7	Craica Papaya	Gwanda	300:00	8,000:00
8	Vitex Dobiana	Dunya	800:00	2,000:00
9	Adansonia Digitata	Kuka	2,000:00	4,000:00
10	Annacarium Ocidentale	Kashu	3,000:00	10,000:00
11	Faidahabia Albida	Gawo	1,000:00	8,000:00
12	Azadirachta Indica	Neem	1,800:00	4,000:00
13	Kyanya Senegalenesis	Madaci	2,800:00	6,000:00
14	Isoberlinia doka	Doko	2.500:00	8,000:00
15	Eucalyptus SPP	Zaiti	800:00	6,000:00
16	Acacia Nilotika	Bagaruwa	800:00	3,000:00
17	Gmelina Arborrea	Malina	1,800:00	4,000:00
18	Meringa Oliefera	Zogala	300:00	2,000:00
10	Budden Mango	Mango-Aure	4,000:00	12,000:00
20	Dionyros Mespiliformis	Kaiwa	800:00	4,000:00
20.	Prosonis a Africana	Kirva	1,500:00	4,000:00
21.	Anegeissus I Eicarpus	Marke	1,000:00	3,000:00
22.	Balanites a covtiaca	Aduwa	800:00	2,000:00
23.	Acacia Senagal	Dakwara	2,000:00	5,000:00
24.	Ceiba Petendra	Rimi	3,000:00	8,000:00
25.	Figue SPP	Durimi	500:00	2,000:00
20.	Borossus aethiopun	Giginva	2,000:00	8,000:00
27.	Hyphenate thebiaca	Kwakar manja	500:00	2,000:00
20.	Elajis quincenis	Goriba	1.000:00	3,000:00
29.	Datarium Socalneis	Taura	400:00	2,000:00
30.	L'auciania innormie	Lalle	400:00	2,000:00
21.	Dhoniy declinate	Dahino	5.000:00	12,000:00
32.	Doniallia oliveri	Maie	1.500:00	4,000:00
33.	Musa capansis	Avaba	800:00	5,000:00
24.	Dittor loof	Shuwaka	500.00	2,000:00
35.	Bitter lear	Bhuwaku	.1	- L - L - L - L - L - L - L - L - L - L