

06/08/2018

The Director,
Directorate of Vigilance and AntiCorruption
No 293, MKN Road,
Alandur, Chennai 600016

Dear Sir,

Sub: Registration of a case and Investigation under Prevention of
Corruption Act and other relevant laws – Coal import scam reg.

Arappor Iyakkam is a people's movement working towards Transparency and Accountability in Governance. Recently, we had exposed a big scam in TANGEDCO in the procurement of the imported coal which resulted in the loss of around **Rs 6066 crores to the exchequer between the years 2012 to 2016**. I am hereby submitting my complaint in detail along with evidences and I immediately request you to register a case and investigate under the Prevention of Corruption Act and other relevant laws.

Details of the Coal Invoicing scam:

1. TamilNadu Generation and Distribution Corporation (TANGEDCO) imported huge quantities of coal between between 2012 and 2016 for their power plants through Tender Specification Nos Coal – 46,47, 48,49,50,51 and 52

2. TamilNadu Generation and Distribution Corporation (TANGEDCO) limited invited tenders for supply of imported steam coal of any origin which is a global competitive bidding.
3. Arappor Iyakkam accessed the copies of all tenders and purchase orders of the coal imported between 2012 and 2016 through RTI and found that there has been a significant difference between the market price of the imported coal as per specification and the price for which it was bought as per the purchase orders. There is a minimum of 18 % difference between the market price and the purchase cost.
4. TANGEDCO in total purchased 2.44 crore metric ton of steam coal from Adani Global Pte Ltd, Knowledge International Strategy Systems Pte Ltd, Chettinad logistics Pvt Ltd, MMTC Ltd and MSTC Ltd. Out of this, 49% of the quantity of coal imported were given to Adani Global Pte Ltd (1.19 crore metric ton).
5. CAG in its audit report while auditing the National Thermal Power Corporation (NTPC) found that Coal pricing was based on Gross Calorific Value (GCV) and GCV measured on 'Air Dried Basis' (ADB) was used for payment of imported coal. The Indonesian coal index, which was one of indices considered for payment settlement, reported GCV on 'Gross as Received' (GAR) basis. Audit noticed that the GCVs worked out on ADB and GAR basis were considerably different, the GCV being higher on ADB basis compared to GAR. The GCV of coal required for the imported coal packages was 6300 KCal/kg worked out on ADB basis. This would translate to GCV in the range of 5800 on GAR basis.
6. A similar fraudulent practice seems to have been adopted while importing coal in TamilNadu as well. TANGEDCO through global

competitive bidding imported coal with specification mentioned in the tenders and purchase orders as Gross Calorific Value (Air Dried Basis) of 6000 Kcal/ Kg, Total Moisture (As received basis) of 15% and Ash Content of 6%. The Gross Calorific Value (Air Dried Basis) of 6000 Kcal/ Kg mentioned in the tender and purchase order documents of TANGEDCO is equivalent to Gross Calorific Value (As Received basis) of 5600 Kcal/ Kg only as per standards. Coal was imported from Indonesia and the Indonesian Government publishes the market index for Steam coal FOB price for 'As Received Basis'. Therefore, the market price for the coal imported must be compared with GCV of 5600 Kcal/ Kg.

7. The difference in market price of Indonesian coal between 6000 Kcal/Kg (As received) and 5600 Kcal/ Kg GCV (As received) is anywhere between \$8 to \$15 per metric ton. This technical point has been purposefully misused to create a huge loss to the exchequer.
8. The cost mentioned in the purchase order is the C & F price meaning Cost plus Freight charges. The insurance cost has been mentioned separately. The Customs duty was paid by the Government separately. The ocean freight charges between 2012 and 2016 is between \$3 to \$11 per metric ton.
9. Therefore in order to compare this C & F price mentioned in the purchase orders with the market price, we took the Indonesian coal price Index for similar specification plus an average freight charge of \$ 7 per metric ton.
10. The attached table compares the price in the purchase order along with the Indonesian coal index price + Ocean Freight Charges for similar Gross calorific value, Total Moisture, Total Sulphur and Total Ash. The HPB coal price index which is the market price

published by Indonesia does not have 5600 GCV (As received) but has 5700 GCV (As received) and 5500 GCV (As received). Therefore, in order for the estimate to be conservative we have taken 5700 GCV (as received) from the Indonesian index. Price of Pinang 5700 in row number 45 of the Indonesian market indices (attached) is taken as reference.

11. 2.44 crore metric ton of steam coal was imported by TamilNadu for a total of USD 201,83,94,500. This translates to Rs 12250,83,99,461 (approximately Rs 12250 crores) by applying the USD to INR at the time of each purchase order.
12. **The estimated loss to the exchequer in importing of coal in terms of procuring higher than market rate works out to be Rs 2177 crores between the years 2012 to 2016. The entire workout of losses can be seen in the attached table**
13. Tender No 49, 50, 51, 52 violated the TamilNadu Tender Transparency Act Rules. Rule 20(1) of the TamilNadu Transparency in Tender rules 2000 (Tender rules) states that the procuring entities are required to allow a minimum of 30 days for submission of tenders valuing more than Rs 2 crore from the date of publication of notice inviting tender (NIT). The rule 16(1) of the tender rules provide that the procuring entities should make available the sale of tender documents from the date of publication of tender. After publication of notice inviting tender, TANGEDCO closed the sale of tender documents much earlier to 30 days for submission of bids contrary to rule 20 of the tender rules.

Tender No	Date of Publishing in Newspaper	Date of publishing in website and commencement of sale of tender document	Closing date of sale of tender document	Due date for submission of bids	Time gap (4)-(3)	Number of bids received
(1)	(2)	(3)	(4)	(5)	(6)	(7)
49	29/05/2014	29/05/2014	26/06/2014	04/07/2014	29	3
50	08/02/2015	09/02/2015	03/03/2015	12/03/2015	23	3
51	06/02/2015	07/12/2015	28/12/2015	06/01/2016	22	1
52	07/02/2016	08/02/2016	17/02/2016	22/06/2016	10	4

14. The tender no 52 was a major violation with just 10 days gap and there is no reason mentioned in the file for such violations as mentioned in the CAG report of PSE's in TamilNadu for 2017. The purchase orders worth Rs 1628 crores were given to MSTC Ltd, Adani Global Pte Ltd, Knowledge International Strategy Systems Pte Ltd and Chettinad Logistics Pvt Ltd on 29/02/2016. This is basically colluding of public servants with major corporates in order to share private gain by misusing power.

15. The DRI has also found that while Indonesian coal came directly, the invoices were routed through different countries to

enable over invoicing. They also spoke about evidences of how there are 2 quality reports of coal and how it was the lower grade coal that actually matched with the contracts signed by the intermediaries with Indonesian coal companies. DRI estimates this overinvoicing to the tune of more than 50%. Their report is also attached for reference. If you add these, the loss further increases significantly.

16. CAG's audit report of public sector enterprises in 2017 throws more light and confirms the fraudulent activities. CAG's analysis of 131 of the 297 consignments of coal imported under five tenders released between October 31 2013 and February 5 2016 shows that not implementing variable pricing increased expenditure by Rs 746.13 crore. CAG also noted that TANGEDCO did not implement reverse auction process despite Central Electricity Regulatory Commission recommendations and thus lost an opportunity to get coal at lower prices.
17. CAG has also found out that while the turnover criteria fixed in tender was NIL and Rs 281 crore for other public sector enterprises such as TNPL and NTECL, TANGEDCO fixed turnover criteria of more than Rs 1000 crore which was way higher than each of the tender value. CAG has observed how the reasons are not justified. It is very clear that TANGEDCO has done this specifically to reduce competition and create a collusion of select bidders.
18. CAG's audit has also brought evidence of fraud in quality. While tests conducted by third party agencies on behalf of the companies showed only about one per cent variation in GCV, CAG's comparison of tests with the Customs Department in 121 consignments showed variation of anywhere between 0 to 2000 GCV (Kcal/Kg). CAG observed that in 121 consignments alone measuring

upto 0.829 crore metric ton (8.29 MMT), penalty leviable is Rs 813.68 crores. **If this penalty is extrapolated for the entire set of consignments measuring upto 2.44 crore metric tons, the estimated penalty leviable would be equal to Rs 2395 crores.**

19. TANGEDCO issued a new Tender Specification No. Coal – 53 for 20 lakh tons to be purchased between January to April 2018 through reverse auction. TANGEDCO through purchase order no 113, procured for \$73.55 per metric ton at Ennore and \$75.55 at Tuticorin port through reverse auction. The Indonesian market price for similar specification coal at that time is around \$ 81. Therefore along with an average freight of \$ 7 per metric ton, market price would be \$ 88. However, TANGEDCO procured for \$13 to \$ 15 less than market rate. This adds further evidence that while TANGEDCO is capable of procuring at the least \$ 10 less than market rate, they have colluded with select bidders between the years 2012 to 2016 on coal specification nos 48, 49, 50, 51 and 52 to create a huge loss for the exchequer. **For 2.44 crore metric tons, the ability of TANGEDCO to buy atleast \$ 10 less than market rate translates to 2.44 crore metric ton * \$ 10 * Rs 61.24 (which is the average of dollar to rupees conversion during the tender period) = Rs 1494 crores**

20. I submit that a major scam both in terms of pricing as well as quality of coal has taken place. This could not have happened without the active connivance of senior officials and the Minister in charge.

21. Overall, if you take into account the overinvoicing of coal more than the market rate, fraud in terms of quality of coal documented by CAG and the ability of TANGEDCO to buy atleast \$ 10 less than

market rate as in the recent tender through reverse auction, **the loss to the exchequer in the years 2012 to 2016 would alone amount to a minimum of Rs 6066 crores. It needs to be kept in mind that this is a conservative estimate and the loss could be more.**

S No	Reason for loss	Estimated amount of loss (In Crores)	Total estimated loss to the exchequer (in Crores)
1	Overinvoicing compared to market rate of 2.44 crore metric ton	Rs 2177 (As can be seen from the attached table)	2177
2	Quality of coal - Difference in testing parameters between Customs and the company's independent evaluators	Rs 813.68 for 0.829 crore metric tons as per CAG report. Total estimated loss for 2.44 crore metric ton would be Rs 2395 crores	2395
3	Ability to procure atleast \$ 10 less than market rate through reverse auction as done in Jan 2018	2.44 crore metric ton multiplied by \$ 10 and converted to rupees(at \$1 = Rs 61.24 which is the average of dollar to rupees conversion during the tender period)	1494

	Total estimated loss to the exchequer		Rs 6066 crores
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22. I submit that there is enough material to prima facie suggest that the then Electricity Minister Mr Natham Viswanathan, then TANGEDCO CMD Mr Gnanadesikan IAS and other senior officials have colluded along with the bidders to bring about huge losses for TANGEDCO for their own personal benefits.
23. Mr Gnanadesikan IAS went onto become the Chief Secretary within a week of getting promoted as Additional Chief Secretary rank in December 2014 leaving behind many seniors. It must be noted that he was later suspended by the Chief Minister on unknown charges. Mr Gnanadesikan was the Chairman and Managing Director of TANGEDCO from 2012 to 2014 and he is directly responsible for the over invoicing of coal.
24. Mr Natham Viswanathan, the then Minister is being said to have acquired wealth out of this Corruption outside the country. IT raids at his place and Anbunathan reportedly unearthed evidence of foreign exchange, benami and hawala transactions. It is also alleged that part of the illegal proceeds that Mr Natham Viswanathan made out of this has also been invested as black money into NPR group of institutions (under Titan Educational Trust) owned by his friend and managed by his brother and nephew in Natham and that a huge cricket stadium has been built. The stadium was inaugurated on 29/11/2015. All of Mr Natham Viswanathan's transactions has to be subjected to thorough investigation. Construction of a cricket ground costs anywhere between Rs 75 crores to Rs 200 crores depending on the facilities. A thorough investigation into the source

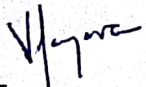
of money for NPR to build a cricket stadium, expenses claimed for building the cricket stadium and a thorough estimation of construction will unveil the amount of black money invested in building the cricket stadium.

25. TANGEDCO has been suffering heavy losses of thousands of crores every year over the last decade and corruption in coal and power purchase agreements have been the major reason for it. We must understand that this translates directly into higher power tariff for the common man and is affecting the common man greatly.

I have attached all the pertinent evidences as annexures for 71 pages.

I submit that a case under section 13 of the Prevention of Corruption Act, 1988 and other relevant laws may kindly be registered and investigated against Mr Natham Viswanathan, Mr Gnanadesikan IAS, all other public servants involved and the companies that colluded in doing this scam resulting in heavy loss for the exchequer. I also request that suitable measures to blacklist the firms be taken immediately so that they don't participate in future tenders. I also request that the loss to the exchequer may be recovered from these firms and public servants.

Sincerely



Jayaram Venkatesan

Convener – Arappor Iyakkam (Ph: 9841894700)

Index to Annexures

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SL.No	PO Number	PO Date	Tender Supplier	Tender spec number	Tender spec date	Port	Qty	USD Per ton	Total purchase cost (USD) GCV (Air dried) - 6000 Kcal/Kg, GCV (As received) - 5600 K Cal/Kg, Total Moisture - 7 to 23 %, Total sulphur - 0.3 to 0.8, Ash - 2 to 8%	USD to INR	Total purchase in INR	Indonesian coal price matching specifications (USD \$) per metric ton GCV (As received) - 5700 K Cal/Kg, Total Moisture - 19%, Total sulphur - 0.5, Ash - 5.5%	Freight Charge per metric ton (USD \$)	Total Market Price per metric ton (USD \$)	Difference between purchase cost and Market price (USD \$)/metric ton	Total Loss to the exchequer in USD	Total Loss to the exchequer in INR
1	108	29.02.2016	MSTC Ltd	52	05.02.2016	Kamarajar Port / Ennore / Karaikal Port	12,40,000	60.95	7,55,78,000	68.16	5,15,17,66,812	45.62	7	53	8.33	1,03,29,200	70,40,88,895.08
2	107	29.02.2016	Adani Global Pte Ltd	52	05.02.2016	Kamarajar Port / Ennore / Karaikal Port	18,60,000	60.95	11,33,67,000	68.16	7,72,76,50,218	45.62	7	53	8.33	1,54,93,800	1,05,81,33,327.62
3	106	29.02.2016	Knowledge International Strategy Systems Pte Ltd	52	05.02.2016	VOC Port / Tuticorin	4,80,000	62.45	2,99,76,000	68.16	2,04,33,11,042	45.62	7	53	9.83	47,18,400	32,16,29,264.16
4	105	29.02.2016	Chettinad Logistics Pvt Ltd	52	05.02.2016	VOC Port / Tuticorin	3,20,000	62.45	1,99,84,000	68.16	1,36,22,07,362	45.62	7	53	9.83	31,45,600	21,44,19,509.44
5	104	06.02.2016	Chettinad Logistics Pvt Ltd	51	05.12.2015	Kamarajar Port / Ennore / Karaikal Port / VOC Port / Tuticorin	4,00,000	61.95	2,47,80,000	67.57	1,67,44,19,292	45.62	7	53	9.33	37,32,000	25,21,78,464.80
6	102	28.02.2015	Knowledge International Strategy Systems Pte Ltd	50	05.01.2015	VOC Port / Tuticorin	6,00,000	78.45	4,70,70,000	63.92	3,00,89,40,336	53.69	7	61	17.76	1,06,56,000	68,11,82,668.80



7	101	27.05.2015	MSTC Ltd	50	05.01.2015	Kamarajar Port / Ennore / Karaikal Port	14,00,000	76.95	10,77,30,000	63.97	6,89,11,43,364	53.69	7	61	16.28	2,27,94,000	1,45,61,40,235.20
						VOC Port / Tuticorin	4,00,000	78.45	3,13,80,000	63.97	2,00,72,78,184	53.69	7	61	17.76	71,04,000	45,44,20,147.20
8	100	26.05.2015	Adani Global Pte Ltd	50	05.01.2015	Kamarajar Port / Ennore / Karaikal Port	21,00,000	76.95	16,15,95,000	63.52	10,26,41,42,732	53.69	7	61	16.26	3,41,46,000	2,16,88,75,384.20
9	98	04.09.2014	MSTC Ltd	49	28.05.2014	Kamarajar Port / Ennore / Karaikal Port	16,00,000	86.95	13,91,20,000	60.38	8,40,00,65,600	60.52	7	68	19.43	3,10,88,000	1,87,70,93,440.00
						VOC Port / Tuticorin	4,00,000	88.55	3,54,20,000	60.38	2,13,86,59,600	60.52	7	68	21.03	84,12,000	50,79,16,560.00
10	97	04.09.2014	Adani Global Pte Ltd	49	28.05.2014	Kamarajar Port / Ennore / Karaikal Port	24,00,000	86.95	20,86,80,000	60.38	12,60,00,98,400	60.52	7	68	19.43	4,66,32,000	2,81,56,40,160.00
11	96	04.09.2014	Knowledge International Strategy Systems Pte Ltd	49	28.05.2014	VOC Port / Tuticorin	6,00,000	88.55	5,31,30,000	60.38	3,20,79,89,400	60.52	7	68	21.03	1,26,18,000	76,18,74,840.00
12	91	10.02.2014	Knowledge International Strategy Systems Pte Ltd	48	31.10.2013	VOC Port / Tuticorin	5,40,000	92.67	5,00,41,800	62.46	3,12,53,85,640	69.05	7	76	16.62	89,74,800	56,05,25,621.40
13	90	07.02.2014	MSTC Ltd	48	31.10.2013	Kamarajar Port / Ennore / Karaikal Port	11,20,000	91.00	10,19,20,000	62.20	6,33,93,11,888	69.05	7	76	14.95	1,67,44,000	1,04,14,58,381.60
						VOC Port / Tuticorin	3,60,000	92.67	3,33,61,200	62.20	2,07,50,29,943	69.05	7	76	16.62	59,83,200	37,21,48,458.48
14	89	07.02.2014	Adani Global Pte Ltd	48	31.10.2013	Kamarajar Port / Ennore / Karaikal Port	16,80,000	91.00	15,28,80,000	62.20	9,50,89,67,832	69.05	7	76	14.95	2,51,16,000	1,56,21,87,572.40

15	88	24.05.2013	Adani Global Pte Ltd	47	06.02.2013	Kamarajar Port Ennore / Karaikal Port	20,10,000	91.91	18,47,39,100	55.82	10,31,22,28,932	72.94	7	80	11.97	2,40,59,700	1,34,30,24,483.85
16	87	24.05.2013	MMTC Ltd	47	06.02.2013	VOC Port / Tuticorin	5,10,000	93.58	4,77,25,800	55.82	2,66,40,78,019	72.94	7	80	13.64	69,56,400	38,83,09,726.20
17	86	22.05.2013	MSTC Ltd	47	06.02.2013	VOC Port / Tuticorin	3,40,000	93.58	3,18,17,200	55.82	1,77,60,52,013	72.94	7	80	13.64	46,37,600	25,98,73,150.80
18	82	19.11.2012	Adani Global Pte Ltd	46	26.07.2012	Kamarajar Port Ennore / Karaikal Port	13,40,000	91.91	12,31,59,400	55.82	6,87,48,19,288	72.94	7	80	11.97	1,60,39,800	89,53,49,655.90
19	81	31.10.2012	MSTC Ltd	46	26.07.2012	Kamarajar Port Ennore / Karaikal Port	10,50,000	92.00	9,66,00,000	53.81	5,19,80,46,000	69.85	7	77	15.15	1,59,07,500	85,59,82,575.00
						VOC Port / Tuticorin	3,00,000	95.00	2,85,00,000	53.81	1,53,35,85,000	69.85	7	77	18.15	54,45,000	29,29,95,450.00
						Kamarajar Port Ennore / Karaikal Port	7,00,000	92.00	6,44,00,000	53.81	3,46,53,64,000	73.50	7	81	11.50	80,50,000	43,31,70,500.00
						VOC Port / Tuticorin	4,50,000	95.00	4,27,50,000	53.81	2,30,03,77,500	73.50	7	81	14.50	65,25,000	35,11,10,250.00
Total							2,44,00,000		2,01,83,94,500		1,22,50,83,99,461					35,74,44,000	21,77,30,86,364.53

Total loss to the Exchequer Loss as a percentage of total purchase Rs 2177 crores 18%

HARGA BATUBARA ACUAN (HBA) & HARGA PATOKAN BATUBARA (HPB)

BULAN FEBRUARI 2016

HBA

HBA (US\$/Ton)	50,92	FOB Vessel
Kualitas: CV = 6322 kcal/kg GAR; TM = 8 %; TS = 0,8 % ar; Ash = 15% ar		

HPB BATUBARA MARKER

NO	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB MARKER (US\$/ton)
		CV (kcal/kg GAR)	TM (%)	TS (%, ar)	Ash (%, ar)	
1	Gunung Bayan I	7,000	10,00	1,00	15,00	54,96
2	Prima Coal	6,700	12,00	0,60	5,00	56,42
3	Pinang 6150	6,200	14,50	0,60	5,50	51,01
4	Indominco IM_East	5,700	17,50	1,63	4,80	41,93
5	Melawan Coal	5,400	22,50	0,40	5,00	42,24
6	Envirocoal	5,000	26,00	0,10	1,20	40,71
7	Jorong J-1	4,400	32,00	0,25	4,15	32,73
8	Ecocoal	4,200	35,00	0,18	3,90	30,23

CONTOH HARGA PATOKAN BATUBARA LAINNYA YANG TERDAFTAR DI DITJEN MINERBA

No	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB (US\$/ton)
		CV (kcal/kg, GAR)	TM (%, ar)	TS (%, ar)	Ash (%, ar)	
9	Gunung Bayan II	7,000	12,00	2,00	10,00	53,14
10	Marunda Thermal Coal	6,600	11,00	0,50	10,00	54,63
11	Trubaindo HCV_HS	6,553	12,00	1,69	4,21	51,24
12	Medco Bara 6500	6,500	10,00	3,28	9,38	43,54
13	Trubaindo HCV_LS	6,423	11,50	0,71	4,76	54,22
14	AGM Waruba Coal	5,313	23,00	0,24	4,00	42,46
15	Pinang 6000 NAR	6,300	14,00	0,60	5,50	52,03
16	Arutmin Satu 10	6,300	11,00	1,00	10,00	50,29
17	Arutmin Senakin	6,250	11,00	1,00	12,00	49,10
18	Arutmin A6250	6,250	10,00	1,20	12,00	48,85
19	Mandiri 1	5,200	25,00	0,60	7,00	38,14
20	Wahana Coal	6,200	12,00	0,90	10,00	49,37
21	Medco Bara 6200	6,200	10,00	4,00	12,00	37,25
22	Indominco IM_West / 6500	6,171	15,50	0,76	5,22	49,72
23	TAJ Coal	6,200	10,00	1,00	14,00	48,45
24	Mandiri 2	5,100	26,00	0,60	7,00	37,04
25	Trubaindo MCV_LS	6,143	14,00	0,76	5,20	50,33
26	SKB Coal	6,130	9,00	2,20	17,00	42,44
27	Baramarta Coal	6,112	9,50	0,95	13,00	48,63
28	Arutmin A6100	6,100	11,50	1,00	12,50	47,46
29	Insani Coal	6,050	19,00	0,15	3,20	50,24
30	BCS Coal	5,915	15,10	0,56	9,40	47,17
31	Indominco IM_West / 6350	6,029	15,50	0,71	5,22	48,87
32	Bangun Coal	6,072	10,02	2,20	14,91	42,27
33	Pinang 6000	6,000	16,00	0,60	5,00	48,92
34	Indominco IMM_MCVHS	5,970	15,50	1,65	5,05	44,74
35	Multi Coal Low	5,950	16,00	1,00	7,00	46,16
36	Multi Coal Middle	5,900	16,00	2,00	7,00	41,79
37	Pinang 5900	5,900	19,00	0,90	4,50	45,64
38	Arutmin A5900	5,900	12,00	0,90	13,00	45,85

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				HPB (US\$/ton)
		CV (kcal/kg GAR)	TM (%, ar)	TS (%, ar)	Ash (%, ar)	
39	Multi Coal High	5.765	16,00	3,20	7,00	36.00
40	KCM Coal	5.730	10,50	0,90	20,50	42.30
41	TSA Coal	5.700	18,00	2,00	8,00	38.92
42	Tanito Coal	5.700	17,50	1,00	8,50	42.97
43	Mahakam Coal	5.700	17,50	1,00	8,50	42.97
44	Ebony High Sulphur	5.700	18,00	1,75	4,70	41.24
45	Pinang 5700	5.700	19,00	0,50	5,00	45.62
46	IBP 5500	5.500	20,00	1,00	7,00	40.92
47	Arutmin A5700	5.700	11,00	0,80	14,00	44.81
48	BSS Coal	5.520	10,00	0,45	15,50	44.69
49	Lanna Harita Coal	5.500	22,00	1,00	6,00	40.36
50	Pinang 5500	5.500	21,00	0,40	5,50	43.44
51	Mahoni Medlum Sulphur	5.500	20,00	1,30	4,70	40.64
52	Mahoni	5.500	20,00	0,80	4,70	42.64
53	Mahakam Coal B	5.400	23,00	1,50	8,00	36.40
54	Mahoni B	5.300	22,50	0,80	4,60	40.12
55	Kideco Coal	5.125	24,50	0,10	2,00	41.88
56	Agathis	5.100	25,00	0,82	4,50	37.61
57	Lanna Harita Coal	5.000	27,00	1,20	6,00	33.96
58	IBP 5000	5.000	25,00	1,00	7,00	35.23
59	Sungkal Medium Sulphur	5.000	26,00	1,30	4,50	34.59
60	Sungkai	5.000	26,00	0,90	4,50	36.19
61	Sungkai High Sulphur	5.000	26,00	1,70	4,50	32.99
62	Arutmin A5000	5.000	22,40	0,54	8,90	37.45
63	AGM Warute Coal	4.350	33,00	0,40	4,00	31.52
64	IBP 4600	4.600	28,00	0,50	7,00	33.40
65	Bas Gumay Coal	4.400	35,00	0,50	4,96	30.25
66	IBP 4400	4.400	30,00	0,50	7,00	31.36
67	IBP 4200	4.200	32,00	0,50	6,00	29.25
68	PIC Coal	4.200	33,00	1,75	6,00	23.87
69	BIB 4000	4.000	38,00	0,50	6,00	25.91
70	Borneo BIB	3.800	41,00	0,40	5,00	19.03
71	AGM Warutas Coal	3.800	40,00	0,15	5,23	19.37
72	PKN 3500	3.520	43,40	0,15	3,40	16.88
73	BMPclenco32	3.200	48,00	0,50	5,00	14.04
74	LIM 3010	3.010	47,50	0,60	5,30	13.34
75	LIM 3000	2.995	50,10	0,60	5,30	12.58

PURCHASE ORDER

6

5

P.O. No: 104, Dt.06.02.16

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. V.KUMAR,B.E.,
Chief Engineer/Mech/Coal,(I/c)
II Floor, NPKRR Maaligal,
No.144, Anna Salai,
Chennai - 600 002.

To

M/s. Chettinad Logistics Pvt. Ltd.,
Rani Seethal Hall,6th Floor
603,Anna Salai
Chennai - 600 006.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F. Import of Coal/P.O.No. 104 /D.54 /16.dt. 06.02.16

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of
Imported Steam Coal - Purchase Order - Issued,

- Ref: 1) Tender specification No.Coal-51 dt 05.12.2015
2) Your bid submitted on 06.01.2016
3) Negotiation minutes I & II Dt 22.01.16
3) Your letter dt 22.01.2016

1.0 . ACCEPTANCE:

With reference to your offer and the other correspondences cited above,
I, acting for and on behalf of and by the order and direction of the
Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept
your offer for the supply of Imported Steam coal with the specification
and the price noted in clause 2.1, subject to the terms and conditions set
forth herein.



2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of Indonesian origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 %	Kamarajar Port, Ennore/Karaikal Port 4,00,000	61.95	2,47,80,000
		VOC Port/ Tuticorin 2,00,000	63.45	1,26,90,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for both Ennore/ Karaikal Port and VOC Port, Tuticorin)	Kamarajar Port, Ennore/Karaikal Port 4,00,000	0.05	20,000
		VOC Port/ Tuticorin 2,00,000	0.05	10,000

Note :

Total guaranteed quantity of not less than 4.00 Lakh tonnes with +3% shipping tolerance to Kamarajar Port, Ennore/Karaikal Port and 2.00 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin. The option for delivery of consignments at Karaikal Port instead of Kamarajar Port, Ennore shall be exercised by the purchaser and not by the seller.

TABLE - II

Sl.No.	Description	Unit	Specification
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture(Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	-	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value(As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	-	45-60
	Ash Fusion Temperature - (IDT)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
12	Size of Coal	0 to 50 mm	%
		0 to 3 mm	%
13	Country of Origin		Indonesia

TAMIL NADU GENERATION AND DISTRIBUTION CORPORATION LIMITED

From

Er. N.Sathlaseelan, B.E., M.B.A, M.I.E
Certified Energy Manager,
Chief Engineer/Mech/Coal
II Floor, NPKRR Maalgai,
No.144, Anna Salai,
Chennai – 600 002.

To

M/s. Chettinad Logistics Pvt. Ltd.,
Rani Seethal Hall, 6th Floor
603, Anna Salai
Chennai – 600 006.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F. Import of Coal/P.O.No.105/D.90/16.dt.29.02.16
.16

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of Imported Steam Coal for VOC Port, Tuticorin- Purchase Order – Issued.

- Ref: 1) Tender specification No.Coal-52 dt 05.02.2016
2) Your bid submitted on 22.02.2016
3) Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F. Coal 52/D.83/16,dt. 26.02.16
4) Your letter dt 26.02.2016
5) B.P.No. 22 dt 27.02.2016.
6) Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F. Coal 52/D.89/16,dt. 29.02.16
7) Your Lr. No. CLPL/TANGEDCO/-IC 39L/2015-16 dt. 29.02.2016

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of Indonesian origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 %	VOC Port/ Tuticorin 3,20,000	62.45	1,99,84,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT)	VOC Port/ Tuticorin 3,20,000	0.05	16,000

Note :

Total guaranteed quantity of not less than 3.20 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin.

TABLE - II

Sl.No.	Description	Unit	Specification
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture(Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FCVM Ratio	-	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value(As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	-	45-60
	Ash Fusion Temperature - (IDT)	°C	1200
	-(Softening Point)	°C	1250
	-(Flow Point)	°C	1300
12	Size of Coal		
	0 to 50 mm	%	100
	0 to 3 mm	%	< 16.5
13	Country of Origin		Any origin

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AEI/EE
(10)

P.O. No:107,Dt.29.02.16

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. N.Sathiaseelan, B.E., M.B.A, M.I.E
Certified Energy Manager,
Chief Engineer/Mech/Coal
II Floor, NPKRR Maallgal,
No.144, Anna Salai,
Chennai – 600 002.

To

M/s ADANI GLOBAL PTE LTD.,
No.80, Raffles Place,
33-20, UOB Plaza II,
Singapore - 048624.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F.Import of Coal/P.O.No.107/D 92/16.dt. 29.02.16

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of
Imported Steam Coal for Kamarajar Port, Ennore/Karaikal Port –
Purchase Order – Issued.

Ref:1) Tender specification No.Coal-52 dt. 05.02.2016.

2) Your bid submitted on 22.02.2016.

3) Minutes of the negotiation meetings held on 24.02.16&25.02.16

4) B.P.No. 22 dt 27.02.2016.

5) Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F.Imp.coal/P.O.No. /D86/16,dt.29.02.16

6) Your Lr.No. NIL dt 29.02.2016

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 %	Kamarajar Port Ennore/Karalkal Port 18,60,000	60.95	11,33,67,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT)	Kamarajar Port Ennore/Karalkal Port 18,60,000	0.05	93,000

Note :

Total guaranteed quantity of not less than 18.60 Lakh tonnes with +3% shipping tolerance to Kamarajar Port, Ennore/Karalkal Port. The option for delivery of consignments at Karalkal Port instead of Kamarajar Port, Ennore shall be exercised by the purchaser and not by the seller.

TABLE - II

Sl.No.	Description	Unit	Specification
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture(Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/MM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value(As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
	Ash Fusion Temperature - (IDT)	°C	1200
	-(Softening Point)	°C	1250
	-(Flow Point)	°C	1300
12	Size of Coal		
	0 to 50 mm	%	100
	0 to 3 mm	%	< 16.5
13	Country of Origin		Indonesia or Any foreign Origin

2
12

AET/ET

P.O. No: 108, Dt.29.02.2016

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. N.Sathiaselvan, B.E., M.B.A, M.I.E
Certified Energy Manager,
Chief Engineer/Mech/Coal
II Floor, NPKRR Maallgal,
No.144, Anna Salai,
Chennai - 600 002.

To

M/s. MSTC Ltd.,
Regd. Office:225-C, Acharya Jagadish Chandra Bose Road,
Kolkatta -700020.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F. Import Coal/P.O.No.108/D93/16.dt. 29.02.16

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of
Imported Steam Coal for Kamarajar Port, Ennore/Karalkal Port –
Purchase Order – Issued.

Ref: 1) Tender specification No.Coal-52 dt 05.02.2016

2) Your bid submitted on 22.02.2016

3) Lr No.CE/M/Coal/SE/M/Coal/E5/A1/F.Imp.coal/D 82/16,Dt. 26.02.2016

4) Your letter No.MSTC-S/NCC/TANGEDCO/15-16/ Dt. 26.02.16

5) B.P.No. 22 dt 27:02.2016.

6) Lr No.CE/M/Coal/SE/M/Coal/E5/A1/F.Imp.coal/D.87/16,Dt. 26.02.2016

7) Your Lr. No. MSTC-S/NCC/TANGEDCO/15-16/ Dt. 29.02.16

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above,
I, acting for and on behalf of and by the order and direction of the
Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept
your offer for the supply of Imported Steam coal with the specification
and the price noted in clause 2.1, subject to the terms and conditions set
forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. In Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification In Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 %	Kamarajar Port, Ennore/Karalkal Port 12,40,000	60.95	7,55,78,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT)	Kamarajar Port, Ennore/Karalkal Port 12,40,000	0.05	62,000

Note :

Total guaranteed quantity of not less than 12.40 Lakh tonnes with +3% shipping tolerance to Kamarajar Port, Ennore/Karalkal Port. The option for delivery of consignments at Karalkal Port instead of Kamarajar Port, Ennore shall be exercised by the purchaser and not by the seller.

TABLE - II

Sl.No.	Description	Unit	Specification
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture(Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8.	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value(As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
	Ash Fusion Temperature - (IDT)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
12	Size of Coal		
	0 to 50 mm	%	100
	0 to 3 mm	%	< 16.5
13	Country of Origin		Any Origin

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED****From**

Er. N.Sathaseelan, B.E., M.B.A, M.I.E
Certified Energy Manager,
Chief Engineer/Mech/Coal
II Floor, NPKRR Maallgal,
No.144, Anna Salai,
Chennai – 600 002.

To

M/s. Knowledge International Strategy Systems Pte. Ltd.,
80, Anson Road,
25-02 Fuji Xerox Towers,
Singapore – 079907.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F.Import of Coal/P.O.No.106/D91/16.dt.29.02.16

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of
Imported Steam Coal for VOC port-Tuticorin- Purchase Order –
Issued.

- Ref: 1) Tender specification No.Coal-52 dt 05.02.2016.
2) Your bid submitted on 22.02.2016.
3) Minutes of the negotiation meetings held on 24.02.2016 & 25.02.2016
4) B.P.No. 22 dt 27.02.2016.
5) Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F.Imp.Coal/P.O./ D88/16,dt.29.02.16
6) Your letter no. Nil dated 29.02.2016.

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I,
acting for and on behalf of and by the order and direction of the Tamil
Nadu Generation and Distribution Corporation Ltd. hereby accept your
offer for the supply of Imported Steam coal with the specification and the
price noted in clause 2.1, subject to the terms and conditions set forth
herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. In Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis): 15% Ash Content (Air Dried Basis): 6 %	VOC Port/ Tuticorin 4,80,000	62.45	2,99,76,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT)	VOC Port/ Tuticorin 4,80,000	0.05	24,000

Note :

Total guaranteed quantity of not less than 4.80 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin.

TABLE - II

Sl.No.	Description	Unit	Specification
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture(Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/MM Ratio	-	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value(As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	-	45-60
	Ash Fusion Temperature - (IDT)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
12	Size of Coal		
	0 to 50 mm	%	100
	0 to 3 mm	%	< 16.5
13	Country of Origin		Indonesia/Russia /Australia/South Africa/Any other Origin

HBA

HBA (US\$/Ton)	61,08	FOB Vessel
Kualitas: CV = 6322 kcal/kg GAR; TM = 8 %; TS = 0,8 % ar; Ash = 15% ar		

HPB BATUBARA MARKER

NO	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB MARKER (US\$/ton)
		CV (kcal/kg GAR)	TM (%)	TS (%, ar)	Ash (%, ar)	
1	Gunung Bayan I	7.000	10,00	1,00	15,00	65,36
2	Prima Coal	6.700	12,00	0,60	5,00	66,72
3	Pinang 6150	6.200	14,50	0,60	5,50	60,27
4	Indominco IM_East	5.700	17,50	1,63	4,80	50,14
5	Melawan Coal	5.400	22,50	0,40	5,00	49,55
6	Envirocoal	5.000	26,00	0,10	1,20	47,18
7	Jorong J-1	4.400	32,00	0,25	4,15	37,96
8	Ecocoal	4.200	35,00	0,18	3,90	34,88

CONTOH HARGA PATOKAN BATUBARA LAINNYA YANG TERDAFTAR DI DITJEN MINERBA

No	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB (US\$/ton)
		CV (kcal/kg, GAR)	TM (%)	TS (% ar)	Ash (% ar)	
9	Gunung Bayan II	7.000	12,00	2,00	10,00	61,89
10	Marunda Thermal Coal	6.600	11,00	0,50	10,00	64,89
11	Trubaindo HCV_HS	6.553	12,00	1,69	4,21	61,32
12	Medco Bara 6500	6.500	10,00	3,28	9,38	53,76
13	Trubaindo HCV_LS	6.423	11,50	0,71	4,76	64,15
14	AGM Waruba Coal	5.313	23,00	0,24	4,00	49,60
15	Pinang 6000 NAR	6.300	14,00	0,60	5,50	61,50
16	ArutminSatui 10	6.300	11,00	1,00	10,00	60,08
17	ArutminSenakin	6.250	11,00	1,00	12,00	58,82
18	Arutmin A6250	6.250	10,00	1,20	12,00	58,67
19	Mandiri A	6.210	10,00	0,70	4,65	63,23
20	Wahana Coal	6.200	12,00	0,90	10,00	58,90
21	Medco Bara 6200	6.200	10,00	4,00	12,00	47,00
22	IndomincoIM_West / 6500	6.171	15,50	0,76	5,22	58,83
23	TAJ Coal	6.200	10,00	1,00	14,00	58,20
24	Mandiri B	6.148	10,00	1,26	4,70	60,39
25	Trubaindo MCV_LS	6.143	14,00	0,76	5,20	59,56
26	SKB Coal	6.130	9,00	2,20	17,00	52,18
27	Baramarta Coal	6.112	9,50	0,95	13,00	58,29
28	Arutmin A6100	6.100	11,50	1,00	12,50	56,89
29	Insani Coal	6.050	19,00	0,15	3,20	58,80
30	SCS Coal	5.915	15,10	0,56	9,40	55,94
31	IndomincoIM_West / 6350	6.029	15,50	0,71	5,22	57,77
32	Bangun Coal	6.072	10,02	2,20	14,91	51,81
33	Pinang 6000	6.000	16,00	0,60	5,00	57,73
34	Indominco IMM_MCVHS	5.970	15,50	1,65	5,05	53,56
35	Multi Coal Low	5.950	16,00	1,00	7,00	54,89
36	Multi Coal Middle	5.900	16,00	2,00	7,00	50,45
37	Pinang 5900	5.900	19,00	0,90	4,50	53,99

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				HPB (US\$/ton)
		CV (kcal/kg GAR)	TM (%)	TS (%ar)	Ash (%ar)	
38	Arutmin A5900	5.900	12,00	0,90	13,00	54,92
39	Multi Coal High	5.765	16,00	3,20	7,00	44,46
40	KCM Coal	5.730	10,50	0,90	20,50	51,26
41	TSA Coal	5.700	18,00	2,00	8,00	47,08
42	Tanito Coal	5.700	17,50	1,00	8,50	51,18
43	Mahakam Coal	5.700	17,50	1,00	8,50	51,18
44	Ebony High Sulphur	5.700	18,00	1,75	4,70	49,40
→ 45	Pinang 5700	5.700	19,00	0,50	5,00	53,69
46	IBP 5500	5.500	20,00	1,00	7,00	48,61
47	Arutmin A5700	5.700	11,00	0,80	14,00	53,67
48	BSS Coal	5.520	10,00	0,45	15,50	53,37
49	LannaHarita Coal	5.500	22,00	1,00	6,00	47,85
50	Pinang 5500	5.500	21,00	0,40	5,50	51,03
51	Mahoni Medium Sulphur	5.500	20,00	1,30	4,70	48,33
52	Mahoni	5.500	20,00	0,80	4,70	50,33
53	Mahakam Coal B	5.400	23,00	1,50	8,00	43,67
54	Mahoni B	5.300	22,50	0,80	4,60	47,30
55	Kideco Coal	5.125	24,50	0,10	2,00	48,63
56	Agathis	5.100	25,00	0,82	4,50	44,29
57	LannaHarita Coal	5.000	27,00	1,20	6,00	40,33
58	IBP 5000	5.000	25,00	1,00	7,00	41,78
59	Sungkai Medium Sulphur	5.000	26,00	1,30	4,50	41,06
60	Sungkai	5.000	26,00	0,90	4,50	42,66
61	Sungkai High Sulphur	5.000	26,00	1,70	4,50	39,46
62	Arutmin A5000	5.000	22,10	0,51	8,90	44,23
63	AGM Warute Coal	4.350	33,00	0,40	4,00	36,61
64	IBP 4600	4.600	28,00	0,50	7,00	39,18
65	Bas Gumay Coal	4.400	35,00	0,50	4,96	35,25
66	IBP 4400	4.400	30,00	0,50	7,00	36,75
67	IBP 4200	4.200	32,00	0,50	6,00	34,13
68	PIC Coal	4.200	33,00	1,75	6,00	28,67
69	BIB 4000	4.000	38,00	0,50	6,00	30,13
70	Borneo BIB	3.800	41,00	0,40	5,00	22,83
71	AGM Warutas Coal	3.800	40,00	0,15	5,23	23,24
72	PKN 3500	3.520	43,40	0,15	3,40	20,15
73	LIM 3010	3.010	47,50	0,60	5,30	16,00
74	LIM 3000	2.995	50,10	0,60	5,30	15,05

P.O.No.100 DI 26.05.15

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. V.Venkateswara Rao, B.E.,M.B.A.,
Chief Engineer/Mech/ Coal,
II Floor, NPKRR Maaligal,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s ADANI GLOBAL PTE LTD.,
No.80, Raffles Place,
33-20, UOB Plaza II,
Singapore - 048624.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F.Imp Coal/P.O.No. 100/D 299 /15.dt. 26.05 .15

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of
imported Steam Coal – Purchase Order – Issued.

Ref:1) Tender specification No.Coal-50 dt. 05.01.2015.

2) Your bid submitted on 12.03.2015.

3) Minutes of the negotiation meetings held on 08.04.2015
15.04.2015, 29/30.04.2015 & 14.05.2015.

4) Your Lrs. Dt 21.04.15,22.04.15,23.04.15,05.05.2015,11.05.2015

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above,
I, acting for and on behalf of and by the order and direction of the Tamil
Nadu Generation and Distribution Corporation Ltd. hereby accept your
offer for the supply of Imported Steam coal with the specification and the
price noted in clause 2.1, subject to the terms and conditions set forth
herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. In Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 %	Kamarajar Port Ennore/Karalkal Port 21,00,000	76.95	16,15,95,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for Kamarajar Port, Ennore/Karalkal Port)	Kamarajar Port Ennore/Karalkal Port 21,00,000	0.05	1,05,000

Note :

Total guaranteed quantity of not less than 21.00 Lakh tonnes with +3% shipping tolerance to Kamarajar Port, Ennore/Karalkal Port. The option for delivery of consignments at Karalkal Port instead of Kamarajar Port, Ennore shall be exercised by the purchaser and not by the seller.

TABLE - II

SLNo.	Description	Unit	Specification	
1	Total Moisture (As received basis)	%	7-23	
2	Inherent Moisture(Air Dried Basis)	%	4-14	
3	Ash Content (Air Dried Basis)	%	2-8	
4	Fixed Carbon (Air Dried Basis)	%	30-50	
5	Volatile Matter (Air Dried Basis)	%	25-42	
6	FCVM Ratio	-	0.80 to 1.3	
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8	
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700	
9	Gross Calorific Value(As Received)	Kcal/Kg.	5400-6300	
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000	
11	Grindability of coal according to Hard Grove Index (HGI)	-	45-80	
	Ash Fusion Temperature -- (IDT)	°C	1200	
	-(Softening Point)	°C	1250	
	-(Flow Point)	°C	1300	
12	Size of Coal	0 to 50 mm	%	100
		0 to 3 mm	%	< 15.5
13	Country of Origin		Indonesia or Any other Foreign Origin	

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P.O. No:101, Dt.27.05.15

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. V.Venkateswara Rao, B.E., M.B.A.,
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maallgai,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s. MSTC Ltd.,
Regd. Office:225-C, Acharya Jagadish Chandra Bose Road,
Kolkatta -700020.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/E, Import of Coal/P.O.No.101/D.300/15.dt. 27.05.15
Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of
Imported Steam Coal - Purchase Order - Issued.

- Ref: 1) Tender specification No.Coal-50 dt 05.01.2015
2) Your bid submitted on 12.03.2015
3) This Office Lrs dt 24.04.15 and 06.05.2015
4) Your letters dt 24.04.15 and 06.05.15
5) Your Lr. No. MSTC-S/IMP NCC/TANGEDCO/2015-16, Dt. 27.05.15

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis): 15% Ash Content (Air Dried Basis): 6 %	Kamarajar Port, Ennore/Karaikal Port 14,00,000	76.95	10,77,30,000
		VOC Port/ Tuticorin 4,00,000	78.45	3,13,80,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for both Ennore/ Karaikal Port and VOC Port, Tuticorin)	Kamarajar Port, Ennore/Karaikal Port 14,00,000	0.05	70,000
		VOC Port/ Tuticorin 4,00,000	0.05	20,000

Note :

Total guaranteed quantity of not less than 14.00 Lakh tonnes with +3% shipping tolerance to Kamarajar Port, Ennore/Karaikal Port and 4.00 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin. The option for delivery of consignments at Karaikal Port instead of Kamarajar Port, Ennore shall be exercised by the purchaser and not by the seller.

TABLE - II

Sl.No.	Description	Unit	Specification
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture(Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FCVM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value(As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
	Ash Fusion Temperature - (IDT)	°C	1200
	-(Softening Point)	°C	1250
	-(Flow Point)	°C	1300
12	Size of Coal	0 to 50 mm	%
		0 to 3 mm	%
13	Country of Origin		Indonesia/Russia/Any Origin

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P.O.No:102 Dt.28.05.15

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. V.Venkateswara Rao, B.E., M.B.A.,
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maallgal,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s. Knowledge International Strategy Systems Pte. Ltd.,
80, Anson Road,
25-02 Fujl Xerox Towers,
Singapore - 079907.

Lr.No.CE/M/Coal/SE/M/Coal/ES/A1/E.Import of Coal/P.O.No.102/D301/15. dt.28.05.2015
Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of
Imported Steam Coal - Purchase Order - Issued.

- Ref: 1) Tender specification No.Coal-50 dt 05.01.2015.
2) Your bid submitted on 12.03.2015.
3) Minutes of the negotiation meetings held on 08.04.2015,15.04.2015,
29/30.04.2015 & 11.05.2015.
4) Your Lrs. Dt. 22.04.15, 23.04.15, 24.04.15 & 06.05.15.
5) Your Acceptance letter dated 25.05.2015.

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis): 15% Ash Content (Air Dried Basis): 6 %	VOC Port/ Tuticorin 6,00,000	78.45	4,70,70,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for VOC Port, Tuticorin)	VOC Port/ Tuticorin 6,00,000	0.05	30,000

Note :

Total guaranteed quantity of not less than 6.00 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin.

TABLE – II

Sl.No.	Description	Unit	Specification
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture(Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 – 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/MM Ratio	–	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value(As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	–	45-60
	Ash Fusion Temperature – (IDT)	°C	1200
	-(Softening Point)	°C	1250
	-(Flow Point)	°C	1300
12	Size of Coal		
	0 to 50 mm	%	100
	0 to 3 mm	%	< 18.5
13	Country of Origin		Indonesia/Russia/ Australia/ South Africa/ Any Origin

HARGA BATUBARA ACUAN (HBA) & HARGA PATOKAN BATUBARA (HPB)

BULAN SEPTEMBER 2014

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HBA

HBA (US\$/Ton)	69,69	FOB Vessel
Kualitas: CV = 6322 kcal/kg GAR; TM = 8 %; TS = 0,8 % ar; Ash = 15% ar		

HPB BATUBARA MARKER

NO	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB MARKER (US\$/ton)
		CV (kcal/kg GAR)	TM (%)	TS (%, ar)	Ash (%,ar)	
1	Gunung Bayan I	7.000	10,00	1,00	15,00	74,69
2	Prima Coal	6.700	12,00	0,60	5,00	75,45
3	Pinang 6150	6.200	14,50	0,60	5,50	68,12
4	Indominco IM_East	5.700	17,50	1,63	4,80	57,11
5	Melawan Coal	5.400	22,50	0,40	5,00	55,74
6	Envirocoal	5.000	26,00	0,10	1,20	52,65
7	Jorong J-1	4.400	32,00	0,25	4,15	42,39
8	Ecocoal	4.200	35,00	0,18	3,90	38,82

CONTOH HPB BATUBARA LAINNYA YANG TERDAFTAR DI DITJEN MINERBA

No	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB (US\$/ton)
		CV (kcal/kg, GAR)	TM (%)	TS (% ar)	Ash (% ar)	
9	Gunung Bayan II	7.000	10,00	1,00	15,00	74,69
10	Marunda Thermal Coal	6.600	11,00	0,50	10,00	73,58
11	Trubaindo HCV_HS	6.553	12,00	1,69	4,21	69,85
12	Medco Bara 6500	6.500	10,00	3,28	9,38	62,42
13	Trubaindo HCV_LS	6.423	11,50	0,71	4,76	72,57
14	AGM Waruba Coal	5.313	23,00	0,24	4,00	55,66
15	Pinang 6000 NAR	6.300	14,00	0,60	5,50	69,52
16	ArutminSatui 10	6.300	11,00	1,00	10,00	68,38
17	ArutminSenakin	6.250	11,00	1,00	12,00	67,05
18	Arutmin A6250	6.250	10,00	1,20	12,00	67,00
19	Mandiri A	6.210	10,00	0,70	4,65	71,51
20	Wahana Coal	6.200	12,00	0,90	10,00	66,97
21	Medco Bara 6200	6.200	10,00	4,00	12,00	55,26
22	IndomincoIM_West / 6500	6.171	15,50	0,76	5,22	66,55
23	TAI Coal	6.200	10,00	1,00	14,00	66,46
24	Mandiri B	6.148	10,00	1,26	4,70	68,58
25	Trubaindo MCV_LS	6.143	14,00	0,76	5,20	67,38
26	SKB Coal	6.130	9,00	2,20	17,00	60,44
27	Baramarta Coal	6.112	9,50	0,95	13,00	66,48
28	Arutmin A6100	6.100	11,50	1,00	12,50	64,88
29	Insani Coal	6.050	19,00	0,15	3,20	66,06
30	BCS Coal	5.915	15,10	0,56	9,40	63,37
31	IndomincoIM_West / 6350	6.029	15,50	0,71	5,22	65,31
32	Bangun Coal	6.072	10,02	2,20	14,91	59,90
33	Pinang 6000	6.000	16,00	0,60	5,00	65,19
34	Indominco IMM_MCVHS	5.970	15,50	1,65	5,05	61,02
35	Multi Coal Low	5.950	16,00	1,00	7,00	62,29
36	Multi Coal Middle	5.900	16,00	2,00	7,00	57,78
37	Pinang 5900	5.900	19,00	0,90	4,50	61,06

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				HPB (US\$/ton)
		CV (kcal/kg GAR)	TM (%)	TS (%ar)	Ash (%ar)	
38	Arutmin A5900	5.900	12,00	0,90	13,00	62,61
39	Multi Coal High	5.765	16,00	3,20	7,00	51,62
40	KCM Coal	5.730	10,50	0,90	20,50	58,85
41	TSA Coal	5.700	18,00	2,00	8,00	54,00
42	Tanito Coal	5.700	17,50	1,00	8,50	58,15
43	Mahakam Coal	5.700	17,50	1,00	8,50	58,15
44	Ebony High Sulphur	5.700	18,00	1,75	4,70	56,32
45	Pinang 5700	5.700	19,00	0,50	5,00	60,52
46	IBP 5500	5.500	20,00	1,00	7,00	55,12
47	Arutmin A5700	5.700	11,00	0,80	14,00	61,18
48	BSS Coal	5.520	10,00	0,45	15,50	60,73
49	LannaHarita Coal	5.500	22,00	1,00	6,00	54,20
50	Pinang 5500	5.500	21,00	0,40	5,50	57,46
51	Mahoni Medium Sulphur	5.500	20,00	1,30	4,70	54,84
52	Mahoni	5.500	20,00	0,80	4,70	56,84
53	Mahakam Coal B	5.400	23,00	1,50	8,00	49,82
54	Mahoni B	5.300	22,50	0,80	4,60	53,38
55	Kideco Coal	5.125	24,50	0,10	2,00	54,36
56	Agathis	5.100	25,00	0,82	4,50	49,95
57	LannaHarita Coal	5.000	27,00	1,20	6,00	45,73
58	IBP 5000	5.000	25,00	1,00	7,00	47,33
59	Sungkai Medium Sulphur	5.000	26,00	1,30	4,50	46,53
60	Sungkai	5.000	26,00	0,90	4,50	48,13
61	Sungkai High Sulphur	5.000	26,00	1,70	4,50	44,93
62	Arutmin A5000	5.000	22,40	0,54	8,90	49,97
63	AGM Warute Coal	4.350	33,00	0,40	4,00	40,92
64	IBP 4600	4.600	28,00	0,50	7,00	44,08
65	Bas Gumay Coal	4.400	35,00	0,50	4,96	39,48
66	IBP 4400	4.400	30,00	0,50	7,00	41,30
67	IBP 4200	4.200	32,00	0,50	6,00	38,26
68	PIC Coal	4.200	33,00	1,75	6,00	32,74
69	Borneo BIB	3.800	41,00	0,40	5,00	26,05
70	AGM Waritas Coal	3.800	40,00	0,15	5,23	26,52
71	PKN 3500	3.520	43,40	0,15	3,40	23,10
72	LIM 3010	3.010	47,50	0,60	5,30	18,25
73	LIM 3000	2.995	50,10	0,60	5,30	17,22

P.O.No. 96, Dt. 04.09.2014

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. V.Venkateswara Rao, B.E., M.B.A.,
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maaligal,
No:144, Anna Salai,
Chennai – 600 002.

To

M/s. Knowledge Infrastructure Systems Pvt. Ltd.,
G-02, Salcon Aurum Complex,
4, Commercial Centre,
Jasola,
New Delhi – 110 025

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F. Import of Coal/P.O.No.96/D⁸⁴¹/14.dt.04.09.14

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of
Imported Steam Coal – Detailed Purchase Order – Issued.

- Ref: 1) Tender specification No.Coal-49 dt 28.05.2014.
2) Your bid submitted on 04.07.2014.
3) Minutes of the negotiation meetings held on 18.07.2014,
23.07.2014 & 06.08.2014.
4) Your Letter No. KISPL/TANGEDCO/2014-15, dated 04.09.2014

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 %	VOC Port/ Tuticorin 6,00,000	88.55	5,31,30,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for VOC Port, Tuticorin)	VOC Port/ Tuticorin 6,00,000	0.05	30,000

Note :

Total guaranteed quantity of not less than 6.00 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED****From**

Er. V.Venkateswara Rao, B.E., M.B.A.,
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maalgai,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s. MSTC Ltd.,
Regd. Office:225-C, Acharya Jagadish Chandra Bose Road,
Kolkatta -700020.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F. Import of Coal/P.O.No.98/D⁰¹³/14.dt.04.09.14

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of Imported Steam Coal – Detailed Purchase Order – Issued.

- Ref: 1) Tender specification No.Coal-49 dt 28.05.14.
2) Your bid submitted on 04.07.2014
3) This Office Lr No. CE/M/Coal/SE/M/Coal/E5/A1/F. Import of coal/
D 759/14, Dt. 07.08.2014
4) Your letter No.MSTC/MKTG/NC.COAL-49/14-15/ Dt. 08.08.2014
5) Your acceptance letter dated 04.09.2014

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as-follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis): 15% Ash Content (Air Dried Basis): 6 %	Kamarajar Port, Ennore/Karaikal Port 16,00,000	86.95	13,91,20,000
		VOC Port/ Tuticorin 4,00,000	88.55	3,54,20,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for both Ennore/ Karaikal Port and VOC Port, Tuticorin)	Kamarajar Port, Ennore/Karaikal Port 16,00,000	0.05	80,000
		VOC Port/ Tuticorin 4,00,000	0.05	20,000

Note :

Total guaranteed quantity of not less than 16.00 Lakh tonnes with +5% shipping tolerance to Kamarajar Port, Ennore/Karaikal Port and 4.00 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin. The option for delivery of consignments at Karaikal Port instead of Kamarajar Port, Ennore shall be exercised by the purchaser and not by the seller.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
13	Size of Coal	Mm	0 to 50
14	Country of Origin		Any origin

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P.O.No. 97, Dt. 04.09.2014

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. V.Venkateswara Rao, B.E.,M.B.A.,
Chief Engineer/Mech/ Coal,
II Floor, NPKRR Maallgal,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s ADANI GLOBAL PTE LTD.,
No.80, Raffles Place,
33-20, UOB Plaza II,
Singapore-048624.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/E.Import of Coal/P.O.No.97/D 942/14,dt.04.09.14

Sir,

**Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of
Steam Coal - Detailed Purchase Order - Issued.**

- Ref:**
- 1) Tender specification No.Coal-49 dt 28.05.2014.
 - 2) Your bid submitted on 04.07.2014.
 - 3) Minutes of the negotiation meetings held on 18.07.14, 23.07.14
& 06.08.2014.
 - 4) Your acceptance letter dated 03.09.2014

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. In Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification In Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 %	Kamrajar Port Ennore/Karaikal Port 24,00,000	86.95	20,86,80,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for Kamarajar Port, Ennore/Karaikal Port)	Kamrajar Port Ennore/Karaikal Port 24,00,000	0.05	1,20,000

Note :

Total guaranteed quantity of not less than 24.00 Lakh tonnes with +3% shipping tolerance to Kamarajar Port, Ennore/Karaikal Port. The option for delivery of consignments at Karaikal Port instead of Kamarajar Port, Ennore shall be exercised by the purchaser and not by the seller.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

HARGA BATUBARA ACUAN (HBA) & HARGA PATOKAN BATUBARA (HPB)
BULAN FEBRUARI 2014

HBA

HBA (US\$/Ton)	80,44	FOB Vessel
Kualitas: CV = 6322 kcal/kg GAR; TM = 8 %; TS = 0,8 % ar; Ash = 15% ar		

HPB BATUBARA MARKER

NO	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB MARKER (US\$/ton)
		CV (kcal/kg GAR)	TM (%)	TS (%, ar)	Ash (%,ar)	
2	Prima Coal	6.700	12,00	0,60	5,00	86,34
3	Pinang 6150	6.200	14,50	0,60	5,50	77,91
4	Indominco IM_East	5.700	17,50	1,63	4,80	65,80
5	Melawan Coal	5.400	22,50	0,40	5,00	63,48
6	Envirocoal	5.000	26,00	0,10	1,20	59,49
7	Jorong J-1	4.400	32,00	0,25	4,15	47,92
8	Ecocoal	4.200	35,00	0,18	3,90	43,74

CONTOH HPB BATUBARA LAINNYA YANG TERDAFTAR DI DITJEN MINERBA

No	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB (US\$/ton)
		CV (kcal/kg, GAR)	TM (%)	TS (% ar)	Ash (% ar)	
10	Marunda Thermal Coal	6.600	11,00	0,50	10,00	84,44
11	Trubaindo HCV_H5	6.555	12,00	1,69	4,21	80,51
12	Medco Bara 6500	6.500	10,00	3,26	9,38	73,23
13	Trubaindo HCV_LS	6.423	11,50	0,71	4,76	83,07
14	AGM Waruba Coal	5.313	23,00	0,24	4,00	63,22
15	Pinang 6000 NAR	6.300	14,00	0,60	5,50	79,53
16	Arutmin Satul 10	6.300	11,00	1,00	10,00	78,75
17	Arutmin Senakin	6.250	11,00	1,00	12,00	77,33
18	Arutmin A6250	6.250	10,00	1,20	12,00	77,40
19	Mandiri A	6.210	10,00	0,70	4,65	81,84
20	Wahana Coal	6.200	12,00	0,90	10,00	77,06
21	Medco Bara 6200	6.200	10,00	4,00	12,00	65,57
22	Indominco IM_West / 6500	6.171	15,50	0,76	5,22	76,19
23	TAJ Coal	6.200	10,00	1,00	14,00	76,77
24	Mandiri B	6.148	10,00	1,26	4,70	78,81
25	Trubaindo MCV_LS	6.143	14,00	0,76	5,20	77,14
26	SKB Coal	6.130	9,00	2,20	17,00	70,75
27	Baramarta Coal	6.112	9,50	0,95	13,00	76,70
28	Arutmin A6100	6.100	11,50	1,00	12,50	74,86
29	Insani Coal	6.050	19,00	0,15	3,20	75,12
30	BCs Coal	5.915	15,10	0,56	9,40	72,65
31	Indominco IM_West / 6350	6.029	15,50	0,71	5,22	74,73
32	Bangun Coal	6.072	10,02	2,20	14,91	70,00
33	Pinang 6000	6.000	16,00	0,60	5,00	74,50
34	Indominco IMM_MCVHS	5.970	15,50	1,65	5,05	70,35
35	Multi Coal Low	5.950	16,00	1,00	7,00	71,52
36	Multi Coal Middle	5.900	16,00	2,00	7,00	66,94
37	Pinang 5900	5.900	19,00	0,90	4,50	69,89

No	MEREK DAGANG/ BRAND	Kualitas Tiplikal				HPB (US\$/ton)
		CV (kcal/kg GAR)	TM (%)	TS (%ar)	Ash (%ar)	
38	Arutmin A5900	5.900	12,00	0,90	13,00	72,21
39	Multi Coal High	5.765	16,00	3,20	7,00	60,57
40	KCM Coal	5.730	10,50	0,90	20,50	68,33
41	TSA Coal	5.700	18,00	2,00	8,00	62,64
42	Tanito Coal	5.700	17,50	1,00	8,50	66,84
43	Mahakam Coal	5.700	17,50	1,00	8,50	66,84
44	Ebony High Sulphur	5.700	18,00	1,75	4,70	64,96
45	Pinang 5700	5.700	19,00	0,50	5,00	69,05
46	IBP 5500	5.500	20,00	1,00	7,00	63,25
47	Arutmin A5700	5.700	11,00	0,80	14,00	70,56
48	BSS Coal	5.520	10,00	0,45	15,50	69,91
49	Lanna Harita Coal	5.500	22,00	1,00	6,00	62,13
50	Pinang 5500	5.500	21,00	0,40	5,50	65,49
51	Mahoni Medium Sulphur	5.500	20,00	1,30	4,70	62,97
52	Mahoni	5.500	20,00	0,80	4,70	64,97
53	Mahakam Coal B	5.400	23,00	1,50	8,00	57,51
54	Mahoni B	5.300	22,50	0,80	4,60	60,97
55	Kideco Coal	5.125	24,50	0,10	2,00	61,51
56	Agathis	5.100	25,00	0,82	4,50	57,02
57	Lanna Harita Coal	5.000	27,00	1,20	6,00	52,48
58	IBP 5000	5.000	25,00	1,00	7,00	54,26
59	Sungkai Medium Sulphur	5.000	26,00	1,30	4,50	53,37
60	Sungkai	5.000	26,00	0,90	4,50	54,97
61	Sungkai High Sulphur	5.000	26,00	1,70	4,50	51,77
62	Arutmin A5000	5.000	22,40	0,54	8,90	57,14
63	AGM Warute Coal	4.350	33,00	0,40	4,00	46,31
64	IBP 4600	4.600	28,00	0,50	7,00	50,21
65	Bas Gumay Coal	4.400	35,00	0,50	4,96	44,77
66	IBP 4400	4.400	30,00	0,50	7,00	47,00
67	IBP 4200	4.200	32,00	0,50	6,00	43,42
68	PIC Coal	4.200	33,00	1,75	6,00	37,82
69	Borneo BIB	3.800	41,00	0,40	5,00	30,07
70	AGM Warutas Coal	3.800	40,00	0,15	5,23	30,61
71	PKN 3500	3.520	43,40	0,15	3,40	26,66
72	LIM 3000	2.995	50,10	0,60	5,30	19,88

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. J.P.S. Amamath, B.E. (Hons),
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maallgal,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s. MSTC Ltd.,
Regd. Office:225-C, Acharya Jagadish Chandra Bose Road,
Kolkatta -700020.

Lr.No.CE/M/Coal/SE/M/Coal/E3/A2/F.Import of Coal/P.O.No.90/D.122/14,dt.07.02.14

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of Imported Steam Coal – Detailed Purchase Order – Issued.

- Ref:**
- 1) Tender specification No.Coal-48 dt 31.10.2013.
 - 2) Your bid submitted on 16.12.2013.
 - 3) This Office Lr No.,CE/M/Coal/SE/M/Coal/E3/A2/F.Import of coal/D76/14 Dt.21.01.2014
 - 4) Your letter No.MSTC/MKTG/NC.COAL-48/13-14/ Dt. 21.01.2014
 - 5) Your letter No.MSTC-S/IMP NCC/TANGEDCO/PO 48/2013-14 Dt. 07.02.2014

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

35

Sl. No.	Description	Qty. In Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000, Kcal/Kg Total Moisture (As Received Basis): 15% Ash Content (Air Dried Basis): 6 %	Ennore/Karalkal Port 11,20,000	91.00	10,19,20,000
		VOC Port/ Tuticorin 3,60,000	92.67	3,33,61,200
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for both Ennore/ Karalkal Port and VOC Port, Tuticorin)	Ennore/Karalkal Port - 11,20,000	0.05	56,000
		VOC Port/ Tuticorin 3,60,000	0.05	18,000

Note :

Total guaranteed quantity of not less than 11.20 Lakh tonnes with +5% shipping tolerance to Ennore/Karalkal Port and 3.60 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

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TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED

From

Er. J.P.S. Amarnath, B.E., (Hons),
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maallgal,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s ADANI GLOBAL PTE LTD.,
No.80, Raffles Place,
33-20, UOB Plaza II,
Singapore-048624.

Lr.No.CE/M/Coal/SE/M/Coal/E3/A2/F.Import of Coal/P.O.No.89/D.118/14,dt. 07.02.14

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of
Steam Coal - Detailed Purchase Order - Issued.

- Ref:**
- 1) Tender specification No.Coal-48 dt 31.10.2013.
 - 2) Your bid submitted on 16.12.2013.
 - 3) Minutes of the negotiation meetings held on 6.01.2014, 17.01.2014
& 18.01.2014.
 - 4) M/s AGPTE's Letter Dt. 06.02.2014.

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE**2.1 PRICE :****TABLE I**

Sl. No.	Description	Qty. In Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 %	Ennore/Karalkal Port 16,80,000	91.00	15,28,80,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for Ennore/ Karalkal Port)	Ennore/Karalkal Port 16,80,000	0.05	84,000

Note :

Total guaranteed quantity of not less than 16.80 Lakh tonnes with +3% shipping tolerance to Ennore/Karalkal Port.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Groove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

TAMIL NADU GENERATION AND DISTRIBUTION CORPORATION LIMITED

From

Er. J.P.S. Amarnath, B.L. (Hons),
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maallgal,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s. Knowledge Infrastructure Systems Pvt. Ltd.,
G-02, Salc6n Aurum Complex,
4, Commercial Centre,
Jasola,
New Delhi - 110 025

Lr.No.CE/M/Coal/SE/M/Coal/E3/A2/F.Import of Coal/P.O.No.91/D 124/14.dt.10.02.14

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of Imported Steam Coal - Detailed Purchase Order - Issued.

- Ref:
- 1) Tender specification No.Coal-48 dt 31.10.2013.
 - 2) Your bid submitted on 16.12.2013.
 - 3) Minutes of the negotiation meetings held on 06.01.2014, 17.01.2014 & 18.01.2014.
 - 4) Your letter No. KISPL/CHE/082/2013-14 dated 10.02.2014

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. In Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 %	VOC Port/ Tuticorin 5,40,000	92.67	5,00,41,800
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.05 USD/MT for VOC Port, Tuticorin)	VOC Port/ Tuticorin 5,40,000	0.05	27,000

Note :

Total guaranteed quantity of not less than 5.40 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	-(Softening Point)	°C	1250
	-(Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

HARGA BATUBARA ACUAN (HBA) & HARGA PATOKAN BATUBARA (HPB)

BULAN MEI 2013

HBA

HBA (US\$/Ton)	85,33	FOB Vessel
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HPB BATUBARA MARKER

NO	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB MARKER (US\$/ton)
		CV (kcal/kg GAR)	TM (%, ar)	TS (%, ar)	Ash (%,ar)	
1	Gunung Bayan I	7.000	10,0	1,0	15,0	91,63
2	Prima Coal	6.700	12,0	0,6	5,0	91,30
3	Pinang 6150	6.200	14,5	0,6	5,5	82,37
4	Indominco IM_East	5.700	17,5	1,6	4,8	69,75
5	Melawan Coal	5.400	22,5	0,4	5,0	67,00
6	Envirocoal	5.000	26,0	0,1	1,2	62,60
7	Jorong J-1	4.400	32,0	0,3	4,2	50,44
8	Ecocoal	4.200	35,0	0,2	3,9	45,98

HPB BATUBARA LAINNYA

No	MEREK DAGANG/ BRAND	Kualitas Typical				HPB (US\$/ton)
		CV (kcal/kg, GAR)	TM (%ar)	TS (%ar)	Ash (%ar)	
9	Gunung Bayan II	7.000	12,0	2,00	10,0	89,38
10	Marunda Thermal Coal	6.600	11,0	0,50	10,0	89,38
11	Trubaindo HCV_HS	6.553	12,0	1,60	4,7	85,36
12	Medco Bara 6500	6.500	10,0	3,28	9,4	78,15
13	Trubaindo HCV_LS	6.423	11,5	0,71	4,8	87,85
14	Tanjung Formation Coal	6.420	11,0	0,70	12,5	85,25
15	Pinang 6000 NAR	6.300	14,0	0,60	5,5	84,09
16	Arutmin Satui 10	6.300	11,0	1,00	10,0	83,46
17	Arutmin Senakin	6.250	11,0	1,00	12,0	82,01
18	Arutmin A6250	6.250	10,0	1,20	12,0	82,12
19	Mandiri A	6.210	10,0	0,70	4,7	86,54
20	Wahana Coal	6.200	12,0	0,90	10,0	81,64
21	Medco Bara	6.200	10,0	4,00	12,0	70,26
22	Indominco IM_West / 6500	6.171	15,5	0,76	5,2	80,57
23	TAJ Coal	6.200	10,0	1,00	14,0	81,46
24	Mandiri B	6.148	10,0	1,26	4,7	83,46
25	Trubaindo MCV_LS	6.143	14,0	0,76	5,2	81,59
26	SKB Coal	6.130	9,0	2,20	17,0	75,44
27	Baramarta Coal	6.112	9,5	0,95	13,0	81,35
28	Arutmin A6100	6.100	11,5	1,00	12,5	79,40
29	Insani Coal	6.050	19,0	0,15	3,2	79,24
30	BCS Coal	5.915	15,1	0,56	9,4	76,88
31	Indominco IM_West / 6350	6.029	15,5	0,71	5,2	79,01
32	Bangun Coal	6.072	10,0	2,20	14,9	74,59
33	Pinang 6000	6.000	16,0	0,60	5,0	78,74
34	Indominco IMM_MCVHS	5.970	15,5	1,65	5,1	74,59
35	Multi Coal Low	5.950	16,0	1,00	7,0	75,73
36	Multi Coal Middle	5.900	16,0	2,00	7,0	71,11
37	Pinang S900	5.900	19,0	0,90	4,5	73,91

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				HPB (US\$/ton)
		CV (kcal/kg GAR)	TM (%ar)	TS (%ar)	Ash (%ar)	
38	Arutmin A5900	5.900	12,0	0,90	13,0	76,57
39	Multi Coal High	5.765	16,0	3,20	7,0	64,65
40	KCM Coal	5.730	10,5	0,90	20,5	72,64
41	TSA coal	5.700	18,0	2,00	8,0	66,57
42	Tanito Coal	5.700	17,5	1,00	8,5	70,79
43	Mahakam Coal	5.700	17,5	1,00	8,5	70,79
44	Ebony High Sulphur	5.700	18,0	1,75	4,7	68,89
45	Pinang 5700	5.700	19,0	0,50	5,0	72,94
46	IBP 5500	5.500	20,0	1,00	7,0	66,95
47	Arutmin A5700	5.700	11,0	0,80	14,0	74,83
48	BSS Coal	5.520	10,0	0,45	15,5	74,09
49	Lanna Harita Coal	5.500	22,0	1,00	6,0	65,74
50	Pinang 5500	5.500	21,0	0,40	5,5	69,15
51	Mahoni Medium Sulphur	5.500	20,0	1,30	4,7	66,67
52	Mahoni	5.500	20,0	0,80	4,7	68,67
53	Mahakam Coal B	5.400	23,0	1,50	8,0	61,00
54	Mahoni B	5.300	22,5	0,80	4,6	64,42
55	Kideco Coal	5.125	24,5	0,10	2,0	64,77
56	Agathis	5.100	25,0	0,82	4,5	60,24
57	Lanna Harita Coal	5.000	27,0	1,20	6,0	55,55
58	IBP 5000	5.000	25,0	1,00	7,0	57,42
59	Sungkai Medium Sulphur	5.000	26,0	1,30	4,5	56,48
60	Sungkai	5.000	26,0	0,90	4,5	58,08
61	Sungkai High Sulphur	5.000	26,0	1,70	4,5	54,88
62	Arutmin A5000	5.000	22,4	0,54	8,9	60,40
63	Warukin Formation Coal	4.760	25,0	0,55	4,5	57,58
64	IBP 4600	4.600	28,0	0,50	7,0	52,99
65	Bas Gumay Coal	4.400	35,0	0,50	5,0	47,18
66	IBP 4400	4.400	30,0	0,50	7,0	49,59
67	IBP 4200	4.200	32,0	0,50	6,0	45,77
68	PIC Coal	4.200	33,0	1,75	6,0	40,13
69	Borneo BIB	3.800	41,0	0,40	5,0	31,90
70	PKN 3500	3.520	43,4	0,15	3,4	20,70
71	UM 3000	2.995	50,1	0,60	5,3	11,09

TAMIL NADU GENERATION AND DISTRIBUTION CORPORATION LIMITED

From

Er. J.P.S. Amarnath, B.E. (Hons),
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maallgal,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s. MSTC Ltd.,
Regd. Office:225-C, Acharya Jagadish Chandra Bose Road,
Kolkatta -700020.

Lr.No.CE/M/Coal/SE/Coal/E3/A2/F.Import of Coal/P.O.No.86/D.381/13, dt. 22.05.13

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of Imported Steam Coal - Detailed Purchase Order - Issued.

- Ref:
- 1) Tender specification No.Coal-47 dt 06.02.2013.
 - 2) Your bid submitted on 20.03.2013.
 - 3) This Office Lr No. CE/M/Coal/SE/E3/A2/F.Import of coal/D289/13 Dt.29.4.2013
 - 4) Your letter No. MSTC/MKTG/NC.COAL/12-13/ Dt. 02.05.2013

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE**2.1 PRICE :****TABLE I**

Sl. No	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported steam coal of any Origin (C&F Price/MT) as per the specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg. Total Moisture (As Received Basis): 15% Ash Content (Air Dried Basis): 6%.	Ennore/Karaikal Port 13,40,000	91.91	123,159,400
2.	Insurance Charges: (Reimbursable at actuals in Indian Rupees subject to a maximum of 0.09 USD/MT for Ennore/Karaikal Port)	Ennore/Karaikal Port 13,40,000	0.09	120,600

Note :

Total guaranteed quantity of not less than 13.40 Lakh tonnes with +5% shipping tolerance for Ennore/Karaikal Port.

TABLE -- II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	-(Softening Point)	°C	1250
	-(Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

TAMIL NADU GENERATION AND DISTRIBUTION CORPORATION LIMITED

From

**E. J.P.S. Amarnath, B.E. (Hons),
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maaligal,
No:144, Anna-Salai,
Chennai - 600 002.**

To

**M/s. MMTC Ltd.,
Core 1, "Scope Complex",
7, Institutional Area,
Lodi Road, New Delhi - 110 003.
Tel:011-24362200**

Lr.No.CE/M/Coal/SE/Coal/E3/A2/F.Import of Coal/P.O.No.87/D334/13, dt. 24.05.13

Sr,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of Imported Steam Coal - Detailed Purchase Order - Issued.

- Ref:**
- 1) Tender specification No.Coal-47 dt 06.02.2013.
 - 2) Your bid submitted on 20.03.2013.
 - 3) This Office Lr No. CE/M/Coal/SE/E3/A2/F.Import of coal/D288/13 Dt.29.04.2013
 - 4) Your letter No. MMTC/Steam Coal/TANGEDCO/12-13/1178 Dt.01.05.2013

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported steam coal of any Origin (C&F Price/MT) as per the specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg. Total Moisture (As Received Basis): 15%. Ash Content (Air Dried Basis): 6%.	VOC Port/Tuticorin 3,40,000	03.58	31,817,200
2.	Insurance Charges: (Reimbursable at actuals in Indian Rupees subject to a maximum of 0.09 USD/MT for VOC Port/Tuticorin)	VOC Port/Tuticorin 3,40,000	0.09	30,600

Note :

Total guaranteed quantity of not less than 3.40 Lakh tonnes with +5% shipping tolerance for VOC Port/Tuticorin.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2-8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	-	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	-	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. J.P.S. Amarnath, B.E., (Hons),
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maallgal,
No:144, Anna Salai,
Chennai – 600 002.

To

M/s ADANI GLOBAL PTE LTD.,
No.80, Raffles Place,
33-20, UOB Plaza II,
Singapore-048624.

Lr.No.CE/M/Coal/SE/Coal/E3/A2/F.Import'of Coal/P.O.No.88/D.340/13.dt. 24.05.13

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of
Steam Coal – Detailed Purchase Order – Issued.

- Ref: 1) Tender specification No.Coal 47 dt 06.02.13.
2) Your bid submitted on 20.03.2013.
3) Minutes of the negotiation meetings held on 16.04.2013, 17.04.2013
& 20.04.13
4) Your Lr No. AGPTE/TANGEDCO-47/2013-14 Dt.20.4.2013

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE**2.1 PRICE :****TABLE I**

Sl. No.	Description	Qty. In Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Steam Coal of any Origin (C&F Price/MT) as per the specification in Table II and Price Basis as follows: GCV (ADB): 6000 Kcal/Kg. Total Moisture (ARB): 15% Ash Content (ADB): 6%.	Ennore/Karalkal Port 20,10,000	91.91	184,739,100
		VOC Port/ Tuticorin 5,10,000	93.58	47,725,800
2.	Insurance Charges: (Reimbursable at actuals subject to a maximum of 0.09 USD/MT for both Ennore/ Karalkal Port and VOC Port, Tuticorin)	Ennore/Karalkal Port 20,10,000	0.09	180,900
		VOC Port/ Tuticorin 5,10,000	0.09	45,900

Note :

Total guaranteed quantity of not less than 20.10 Lakh tonnes with +3% shipping tolerance to Ennore/Karalkal Port and 5.10 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

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**HARGA BATUBARA ACUAN (HBA) & HARGA PATOKAN BATUBARA (HPB)
BULAN NOVEMBER 2012**

HBA

HBA (US\$/Ton)	81.44	FOB Vessel
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HPB BATUBARA MARKER

NO	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB MARKER (US\$/ton)
		CV (kcal/kg GAR)	TM (%, ar)	TS (%, ar)	Ash (%,ar)	
1	Gunung Bayan I	7.000	10,0	1,0	15,0	87.41
2	Prima Coal	6.700	12,0	0,6	5,0	87.36
3	Pinang 6150	6.200	14,5	0,6	5,5	78.83
4	Indominco IM_East	5.700	17,5	1,6	4,8	66.61
5	Melawan Coal	5.400	22,5	0,4	5,0	64.20
6	Envirocoal	5.000	26,0	0,1	1,2	60.13
7	Jorong J-1	4.400	32,0	0,3	4,2	48.43
8	Ecocoal	4.200	35,0	0,2	3,9	44.19

HPB BATUBARA LAINNYA

No	MEREK DAGANG/ BRAND	Kualitas Typical				HPB (US\$/ton)
		CV (kcal/kg, GAR)	TM (%,ar)	TS (%,ar)	Ash (%,ar)	
9	Gunung Bayan II	7.000	12,0	1,00	10,0	83.45
10	Marunda Thermal Coal	6.600	11,0	0,50	10,0	85.45
11	Trubaindo HCV_HS	6.553	12,0	1,69	4,2	81.50
12	Trubaindo HCV_LS	6.423	11,5	0,71	4,8	84.05
13	Tanjung Formation Coal	6.420	11,0	0,70	12,5	81.41
14	Pinang 6000 NAR	6.300	14,0	0,60	5,5	80.46
15	Arutmin Satui 10	6.300	11,0	1,00	10,0	79.71
16	Arutmin Senakin	6.250	11,0	1,00	12,0	78.29
17	Arutmin A6250	6.250	10,0	1,20	12,0	78.36
18	Mandiri A	6.210	10,0	0,70	4,7	82.80
19	Wahana Coal	6.200	12,0	0,90	10,0	78.00
20	Medco Bara	6.200	10,0	4,00	12,0	66.53
21	Indominco IM_West/ 6500	6.171	15,5	0,76	5,2	77.09
22	TAJ Coal	6.200	10,0	1,00	14,0	77.73
23	Mandiri B	6.148	10,0	1,26	4,7	79.76
24	Trubaindo MCV_LS	6.143	14,0	0,76	5,2	78.05
25	SKB Coal	6.130	9,0	2,20	17,0	71.71
26	Baramarta Coal	6.112	9,5	0,95	13,0	77.65
27	Arutmin A6100	6.100	11,5	1,00	12,5	75.79
28	Insani Coal	6.050	19,0	0,15	3,2	75.96
29	BC5 Coal	5.915	15,1	0,56	9,4	73.52
30	Indominco IM_West/ 6350	6.029	15,5	0,71	5,2	75.61
31	Bangun Coal	6.072	10,0	2,20	14,9	70.94
32	Pinang 6000	6.000	16,0	0,60	5,0	75.37
33	Indominco IMM_MCVHS	5.970	15,5	1,65	5,1	71.22
34	Multi Coal Low	5.950	16,0	1,00	7,0	72.38
35	Multi Coal Middle	5.900	16,0	2,00	7,0	67.79
36	Pinang 5900	5.900	19,0	0,90	4,5	70.72

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				HPB (US\$/ton)
		CV (kcal/kg GAR)	TM (%ar)	TS (%ar)	Ash (%ar)	
37	Arutmin A5900	5.900	12,0	0,90	13,0	73.10
38	Multi Coal High	5.765	16,0	3,20	7,0	61.41
39	KCM Coal	5.730	10,5	0,90	20,5	69.21
40	TSA coal	5.700	18,0	2,00	8,0	63.45
41	Tanito Coal	5.700	17,5	1,00	8,5	67.65
42	Mahakam Coal	5.700	17,5	1,00	8,5	67.65
43	Ebony High Sulphur	5.700	18,0	1,75	4,7	65.77
44	Pinang 5700	5.700	19,0	0,50	5,0	69.85
45	IBP 5500	5.500	20,0	1,00	7,0	64.01
46	Arutmin A5700	5.700	11,0	0,80	14,0	71.43
47	BSS Coal	5.520	10,0	0,45	15,5	70.76
48	Lanna Harita Coal	5.500	22,0	1,00	6,0	62.87
49	Pinang 5500	5.500	21,0	0,40	5,5	66.24
50	Mahoni Medium Sulphur	5.500	20,0	1,30	4,7	63.73
51	Mahoni	5.500	20,0	0,80	4,7	65.73
52	Mahakam Coal B	5.400	23,0	1,50	8,0	58.22
53	Mahoni B	5.300	22,5	0,80	4,6	61.67
54	Kideco Coal	5.125	24,5	0,10	2,0	62.18
55	Agathis	5.100	25,0	0,82	4,5	57.68
56	Lanna Harita Coal	5.000	27,0	1,20	6,0	53.11
57	IBP 5000	5.000	25,0	1,00	7,0	54.91
58	Sungkai Medium Sulphur	5.000	26,0	1,30	4,5	54.01
59	Sungkai	5.000	26,0	0,90	4,5	55.61
60	Sungkai High Sulphur	5.000	26,0	1,70	4,5	52.41
61	Arutmin A5000	5.000	22,4	0,54	8,9	57.81
62	Warukin Formation Coal	4.760	25,0	0,55	4,5	55.19
63	IBP 4600	4.600	28,0	0,50	7,0	50.78
64	Bas Gumay Coal	4.400	35,0	0,50	5,0	45.26
65	IBP 4400	4.400	30,0	0,50	7,0	47.53
66	IBP 4200	4.200	32,0	0,50	6,0	43.90
67	PIC Coal	4.200	33,0	1,75	6,0	38.29
68	Borneo B/B	3.800	41,0	0,40	5,0	30.44
69	PKN 3500	3.520	43,4	0,15	3,4	26.99
70	LIM 3000	2.995	50,1	0,60	5,3	20.13

TAMIL NADU GENERATION AND DISTRIBUTION CORPORATION LIMITED

From

Er. J.P.S. Amamath, B.E., (Hons),
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maaligai,
No:144 Anna Salai,
Chennai - 600 002.

To

M/s ADANI GLOBAL PTE LTD.,
No.80, Raffles Place,
33-20, UOB Plaza II,
Singapore-048624.

Lr.No.CE/M/Coal/SE/Coal/E3/A2/E.Import of Coal/P.O.No.82/D.705/12.dt 19.11.12

Sr.

Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of non-coking (Steaming) Coal - Detailed Purchase Order - Issued

- Ref:**
- 1) Tender specification No.Coai 46 dt 26.07.12
 - 2) Your bid submitted on 17.09.2012
 - 3) Minutes of the negotiation meetings held on 22.09.12 & 23.10.2012

1.0 ACCEPTANCE

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. accept your offer for the supply of Imported non-coking (Steaming) coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1	Non-coking (Steaming) coal of any Origin (C&F Price/MT) as per the specification in Table II and Price Basis as follows: GCV (ADB): 6000 Kcal/Kg. Total Moisture (ARB): 15% Ash Content (ADB): 6%.	Ennore/Karaikal Port 10,50,000	92.00	966,00,000
		VOC Port/ Tuticorin 3,00,000	95.00	285,00,000
2.	Insurance Charges: (Reimbursable at actuals in Indian Rupees subject to a maximum of 0.06 USD/MT for Ennore/Karaikal Port and 0.09 USD/MT for VOC Port, Tuticorin)	Ennore/Karaikal Port 10,50,000	0.06	63,000
		VOC Port/ Tuticorin 3,00,000	0.09	27,000

Note :

Total guaranteed quantity of not less than 13.50 Lakh tonnes with +5% shipping tolerance for both Ennore/Karaikal Port & VOC Port/Tuticorin.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

HARGA BATUBARA ACUAN (HBA) & HARGA PATOKAN BATUBARA (HPB)

BULAN OKTOBER 2012

HBA

HBA (US\$/Ton)	86,04	FOB Vessel
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HPB BATUBARA MARKER

NO	MEREK DAGANG/ BRAND	KUALITAS TYPICAL				HPB MARKER (US\$/ton)
		CV (kcal/kg GAR)	TM (%, ar)	TS (%, ar)	Ash (%, ar)	
1	Gunung Bayan I	7,000	10,0	1,0	15,0	92,40
2	Prima Coal	6,700	12,0	0,6	5,0	92,02
3	Pinang 6150	6,200	14,5	0,6	5,5	83,02
4	Indominco IM_East	5,700	17,5	1,6	4,8	70,32
5	Melawan Coal	5,400	22,5	0,4	5,0	67,51
6	Envirocoal	5,000	26,0	0,1	1,2	63,05
7	Jorong J-1	4,400	32,0	0,3	4,2	50,80
8	Ecocoal	4,200	35,0	0,2	3,9	45,30

HPB BATUBARA LAINNYA

No	MEREK DAGANG/ BRAND	Kualitas Typical				HPB (US\$/ton)
		CV (kcal/kg, GAR)	TM (%, ar)	TS (%, ar)	Ash (%, ar)	
9	Gunung Bayan II	7,000	10,0	1,00	10,0	88,53
10	Marunda Thermal Coal	6,600	11,0	0,50	10,0	90,09
11	Trubaindo HCV_HS	6,553	12,0	1,69	4,2	86,06
12	Trubaindo HCV_LS	6,423	11,5	0,71	4,8	88,55
13	Tanjung Formation Coal	6,420	11,0	0,70	12,5	85,92
14	Pinang 6000 NAR	6,300	14,0	0,60	5,5	84,75
15	Arutmin Satui 10	6,300	11,0	1,00	10,0	84,14
16	Arutmin Senakin	6,250	11,0	1,00	12,0	82,69
17	Arutmin A6250	6,250	10,0	1,20	12,0	82,81
18	Mandiri A	6,210	10,0	0,70	4,7	87,22
19	Wahana Coal	6,200	12,0	0,90	10,0	82,31
20	Indominco IM_West / 6500	6,171	15,5	0,76	5,2	81,21
21	TAJ Coal	6,200	10,0	1,00	14,0	82,15
22	Mandiri B	6,148	10,0	1,26	4,7	84,13
23	Trubaindo MCV_LS	6,143	14,0	0,76	5,2	82,23
24	SKB Coal	6,130	9,0	2,20	17,0	76,12
25	Baramarta Coal	6,112	9,5	0,95	13,0	82,03
26	Arutmin A6100	6,100	11,5	1,00	12,5	80,06
27	Insani Coal	6,050	19,0	0,15	3,2	79,83
28	BCS Coal	5,915	15,1	0,56	9,4	77,49
29	Indominco IM_West / 6350	6,029	15,5	0,71	5,2	79,64
30	Bangun Coal	6,072	10,0	2,20	14,9	75,26
31	Pinang 6000	6,000	16,0	0,60	5,0	79,36
32	Indominco IMM_MCVHS	5,970	15,5	1,65	5,1	75,21
33	Multi Coal Low	5,950	16,0	1,00	7,0	76,34
34	Multi Coal Middle	5,900	16,0	2,00	7,0	71,71
35	Pinang 5900	5,900	19,0	0,90	4,5	74,50
36	Arutmin A5900	5,900	12,0	0,90	13,0	77,21

No	MEREK DAGANG/ BRAND	Kualitas Tipikal				HPB (US\$/ton)
		CV (kcal/kg GAR)	TM (%ar)	TS (%ar)	Ash (%ar)	
37	Multi Coal High	5,765	16,0	3,20	7,0	65,24
38	KCM Coal	5,730	10,5	0,90	20,5	73,26
39	TSA coal	5,700	18,0	2,00	8,0	67,14
40	Tanito Coal	5,700	17,5	1,00	8,5	71,36
41	Mahakam Coal	5,700	17,5	1,00	8,5	71,36
42	Ebony High Sulphur	5,700	18,0	1,75	4,7	69,46
43	Pinang 5700	5,700	19,0	0,50	5,0	73,50
44	IBP 5500	5,500	20,0	1,00	7,0	67,49
45	Arutmin A5700	5,700	11,0	0,80	14,0	75,45
46	BSS Coal	5,520	10,0	0,45	15,5	74,69
47	Lanna Harita Coal	5,500	22,0	1,00	6,0	66,26
48	Pinang 5500	5,500	21,0	0,40	5,5	69,68
49	Mahoni Medium Sulphur	5,500	20,0	1,30	4,7	67,21
50	Mahoni	5,500	20,0	0,80	4,7	69,21
51	Mahakam Coal B	5,400	23,0	1,50	8,0	61,51
52	Mahoni B	5,300	22,5	0,80	4,6	64,92
53	Kideco Coal	5,125	24,5	0,10	2,0	65,24
54	Agathis	5,100	25,0	0,82	4,5	60,70
55	Lanna Harita Coal	5,000	27,0	1,20	6,0	55,99
56	IBP 5000	5,000	25,0	1,00	7,0	57,87
57	Sungkai Medium Sulphur	5,000	26,0	1,30	4,5	56,93
58	Sungkai	5,000	26,0	0,90	4,5	58,53
59	Sungkai High Sulphur	5,000	26,0	1,70	4,5	55,33
60	Arutmin A5000	5,000	22,4	0,54	8,9	60,88
61	Warukin Formation Coal	4,760	25,0	0,55	4,5	58,01
62	IBP 4600	4,600	28,0	0,50	7,0	53,39
63	Bas Gumay Coal	4,400	35,0	0,50	5,0	47,52
64	IBP 4400	4,400	30,0	0,50	7,0	49,96
65	IBP 4200	4,200	32,0	0,50	6,0	46,11
66	PIC Coal	4,200	33,0	1,75	6,0	40,47
67	Borneo B/B	3,800	41,0	0,40	5,0	32,16
68	PKN 3500	3,520	43,4	0,15	3,4	28,52
69	LIM 3000	2,995	50,1	0,60	5,3	21,26

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P.O. No: 81 Dt. 31.10.2012

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. J.P.S. Annamath, B.E. (Hons),
Chief Engineer/ Mech/ Coal,
II Floor, NPKRR Maaligai,
No:144, Anna Salai,
Chennai - 600 002.

To

M/s. MSTC Ltd.,
Regd. Office: 225-C, Acharya Jagadish Chandra Bose Road,
Kolkata - 700020.

Lr.No.CE/M/Coal/SE/Coal/E3/A2/F.Import of Coal/P.O.No.81/D. 646/12, dt 31.10.12

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd - Supply of non-coking (Steaming) Coal - Detailed Purchase Order - Issued.

Ref: 1) Tender specification No.Coal 46 dt 26.07.12.
2) Your bid submitted on 17.09.2012.
3) Minutes of the negotiation meetings held on 22.10.12 & 23.10.2012.

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. accept your offer for the supply of Imported non-coking (Steaming) coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.

2.0 MATERIALS AND PRICE**2.1 PRICE :****TABLE I**

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Non-coking (Steaming) coal of any Origin (C&F Price/MT) as per the specification in Table II and Price Basis as follows: GCV (ADB): 6000 Kcal/Kg. Total Moisture (ARB): 15% Ash Content (ADB): 6%.	Ennore/Karaikal Port 7,00,000	92.00	644,00,000
		VOC Port/ Tuticorin 4,50,000	95.00	427,50,000
2.	Insurance Charges: (Reimbursable at actuals in Indian Rupees subject to a maximum of 0.06 USD/MT for Ennore/Karaikal Port and 0.09 USD/MT for VOC Port, Tuticorin)	Ennore/Karaikal Port 7,00,000	0.06	42,000
		VOC Port/ Tuticorin 4,50,000	0.09	40,500

Note :

Total guaranteed quantity of not less than 11.50 Lakh tonnes with +5% shipping tolerance for both Ennore/Karaikal Port & VOC Port/Tuticorin.

TABLE - II

Sl.No.	Description	Unit	Typical
1	Total Moisture (As received basis)	%	7-23
2	Inherent Moisture (Air Dried Basis)	%	4-14
3	Ash Content (Air Dried Basis)	%	2 - 8
4	Fixed Carbon (Air Dried Basis)	%	30-50
5	Volatile Matter (Air Dried Basis)	%	25-42
6	FC/VM Ratio	--	0.80 to 1.3
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700
9	Gross Calorific Value (As Received)	Kcal/Kg.	5400-6300
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60
12	Ash Fusion Temperature - (Initial Deformation Temperature)	°C	1200
	- (Softening Point)	°C	1250
	- (Flow Point)	°C	1300
13	Size of Coal	mm	0 to 50
14	Country of Origin		Any origin

Report No. 15 of 2016

Ministry stated (November 2016) that there are a number of small coal mines in Indonesia and hence bidders used to declare a substantial number of mines in the above mentioned format. Ministry added that once the source of coal mine(s) is declared by the successful bidder, he is bound to supply the coal from only the declared mine(s), meeting the technical specification of coal. It was also stated that the objective of obtaining assurance about the quantity and quality of coal was fulfilled with source declaration.

The reason for non-participation of mine owners abroad was supply and handling of coal up to station end. Instead of addressing this concern, the Company relaxed the requirement of declaration for specific mine (s). Though declaration of specific mine(s) would have caused some inconvenience to the bidders, the same would have provided assurance to the Company about quantity and quality of coal being procured by the bidder.

4.3 Indices adopted for price settlement of imported coal

NTPC imported coal from Indonesia under 15 packages involving 14.6 MMT during February 2012 to February 2013. As per bid conditions, FOB coal price quoted was subject to variations for payment purposes, considering lower of the specified indices²² on base date and weekly basis, based on indexation.

Coal pricing was based on Gross Calorific Value (GCV) and GCV measured on 'Air Dried Basis' (ADB) was used for payment of imported coal. The Indonesian coal index, which was one of indices considered for payment settlement, reported GCV on 'Gross as Received' (GAR) basis. Audit noticed that the GCVs worked out on ADB and GAR basis were considerably different, the GCV being higher on ADB basis compared to GAR. The GCV of coal required for the imported coal packages was 6300 kCal/kg worked out on ADB basis. This would translate to GCV in the range of 5800 on GAR basis. NTPC indicated in the contract document that one of the parameters for price basis was GCV of 6300 kCal/kg (on ADB basis) and that FOB prices would be subject to variation considering specified indices, including Indonesian Coal Index of 6500 GAR. Audit observed that since the appropriate Indonesian Coal Index was not specified, (6500 GAR was specified instead of 5800 GAR), extra expenditure was entailed at the time of payment for coal deliveries.²³ Difference in price per tonne of Indonesian coal, as per 6500 GAR and 5800 GAR ranged from 11.97 USD to 18.75 USD (rates which prevailed on award dates). Since the imported coal supplies were from Indonesia, adoption of appropriate index was important.

Ministry stated (November 2016) that the bidders would include the impact of all the probable risks and other commercial conditions in their bid prices, irrespective of the

²² (i) CERC methodology (which comprised of indices for the Richard Bay API4 for 6000 kCal/ Kg NCV, Newcastle Export Index (NEX) for 6700 kCal/ Kg GAD and Global Coal New Castle (GCNEW C) for 6000 kCal/ Kg NCV with weightage 50:25:25); (ii) Methodology using the Indices for the Country of Origin of Coal (in this case one of the indices considered was Indonesian Coal Index (ICI) 6500 GAR).

²³ For example, in the bid opened on 3.2.2012, the bidder quoted 97.35 \$ per tonne for coal of GCV 6300 (GCV to be assessed on ADB basis). The market price of coal as per Indonesian Coal Index (5800 (GAR basis) at that time was 113 \$. The quoted price, which was accepted, was lower than the market price as per this index. However, the market price as per Indonesian Coal Index 5800 (GAR basis), which was the appropriate index at that time was 94.25 \$ but the quoted price was higher than this value. The same analogy was applicable during price settlement at the time of actual delivery also.

Report No.35 of 2016

particular index number used. Ministry added that indices were used only for the payment of price escalation.

The reply is to be viewed against the fact that adoption of appropriate index was crucial for payment purpose, including escalation with reference to base date, since coal pricing varied according to moisture and basis of reporting (ADB or GAR).



Directorate of Revenue Intelligence
7th Floor, D Block, Indraprastha Bhawan, Indraprastha Estate,
New Delhi- 110002
Telefax: 91-11-23378058, 23370437

DRI F.No. DRI/HQ-CI/50D/Misc-33/2016-CI

Dated: 30.03.16

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To,

All the Principal Chief Commissioner of Customs
All the Principal Chief Commissioner of Customs & Central Excise
All the Chief Commissioner of Customs,
All the Chief Commissioner of Customs & Central Excise
All the Principal Commissioner of Customs
All the Principal Commissioner of Customs & Central Excise
All the Commissioner of Customs
All the Commissioner of Customs & Central Excise
All Principal ADG/ADG of DRI Zonal Units

Sir/Madam,

Modus-Operandi/ General Alert Circular No. 11 / 2016-CI

Sub: Import of Coal from Indonesia by resorting to Over-valuation

Intelligence developed by the Directorate of Revenue Intelligence, indicated that certain importers of Indonesian Coal were artificially inflating its import value as compared to the actual value. This modus-operandi of inflating the procurement price of imported coal was adopted by power generating companies and traders who supplied the imported goods to power generating companies. The objective of the overvaluation appears to be two fold (i) siphoning-off money abroad and (ii) to avail higher power tariff compensation based on artificially inflated cost of the imported Coal. The intelligence further indicated that while Indonesian Coal was directly shipped from Indonesian ports to the importers in India, the import invoices were routed through one or more intermediaries based in Singapore, Dubai, Hong Kong, British Virgin Islands (U.K) etc for the purpose of artificially inflating its value.

2. From the investigation conducted so far, it appears that;

(i) Indonesian Coal was shipped directly from Indonesian ports to India whereas supplier's invoices are routed through one or more intermediary invoicing agents based in a third country, for

the sole purpose of creating layers (typical of Trade Based Money Laundering) and artificially inflating its landed value;

(ii) Export value of Indonesian Coal (on FOB basis) is duly mentioned in the Form A-I prescribed under the ASEAN-India Free Trade Area (AIFTA) Rules, notified vide Notification No 189/2009-Cus (N.T) dated 31.12.2009 as a statutory Country of Origin document required for availing duty exemption.

(iii) Comparison of Form A-I values with the values declared before Indian Customs at the time of import, at same level of Incoterms (CIF = FOB + Actual Freight and Insurance), in the cases under examination suggest huge over-valuation to the extent of about 50% to 100%.

(iv) The inflated invoices received in India were found to have been issued by intermediary invoicing agents based in Singapore, Dubai, Hong Kong, British Virgin Islands (U.K) etc. These intermediary firms appear to be either subsidiary companies of Indian Importers or their front companies.

(v) In a significant number of cases, two sets of Test Reports (certificate of Sampling and Analysis) issued at the Load Port by two different testing agencies for the same consignment of Coal have been recovered - one showing lower Gross Calorific Value (GCV) and the other higher GCV. The test report with lower GCV appears in conformity with the contract between subsidiary company or intermediary agent of Indian importer and Indonesian suppliers, reflecting the actual value of the Coal. The test report with higher GCV, which was submitted before Indian Customs at the time of import, appears to be in conformity with the supply contract between the power generation companies/ Indian importers and subsidiary company or intermediary agent of the Indian importers, reflecting the inflated value of the coal.

(vi) Prices of various grades of Coal in International market ex-Indonesia are reported on a weekly basis in reputed trade journals such as Argus, Platts, Indonesian Coal Index etc. These prices more or less match with the prices mentioned in the Form A-I as well as invoices raised by Indonesian suppliers which may be referred for scrutiny of declared value.

(vii) As per the provisions of AIFTA, Form A-I shall comprise of one original and three copies. The Original shall be submitted to the Customs authority at the port of importation, Duplicate shall be retained by the Issuing authority of the exporting country, Triplicate shall be retained by the Importer and the Quadruplicate shall be retained by the Exporter. It has been observed that the importers are submitting the Xerox copies of Form A-I instead of Original copy which has to be mandatorily submitted to Indian Customs. In some cases, the FOB value in Form A-I submitted before Indian Customs was found to have been masked/ obliterated in order to avoid detection/conceal the actual price. In some cases, the duty exemption under AIFTA, although eligible, was not claimed to avoid submission of Form A-I and hence to avoid detection of the actual FOB value.

3. Details of the major 40 importers currently being investigated by DRI are enclosed in Annexure. The investigation by DRI in these cases shall cover imports till 31st March 2016. Imports

subsequent to this date may be scrutinized from the angle of over-valuation by the field formations and a decision be taken on merit, without referring the matter to this office. The officers under your jurisdiction may also be sensitized to follow the procedure prescribed for drawal and testing of samples and to scrutinize and verify the documents submitted by the importer with due care and diligence.

Encl: As above.

PREFACE

This report deals with the results of audit of Government Companies and Statutory Corporation for the year ended March 2017.

The accounts of the Government Companies (including Companies deemed to be Government Companies as per the provisions of the Companies Act) are audited by the Comptroller and Auditor General of India (CAG) under the provisions of Section 619 of the Companies Act, 1956 and Section 139 and 143 of the Companies Act, 2013. The accounts certified by the Statutory Auditors (Chartered Accountants) appointed by the CAG under the Companies Act are subject to supplementary audit by officers of the CAG and the CAG gives his comments or supplements the reports of the Statutory Auditors. In addition, these Companies are also subject to test audit by the CAG.

Reports in relation to the accounts of a Government Company or Corporation are submitted to the Government by CAG for laying before State Legislature of Tamil Nadu under the provisions of Section 19-A of the Comptroller and Auditor General's (Duties, Powers and Conditions of Service) Act, 1971.

In respect of Tamil Nadu Electricity Regulatory Commission, the CAG is the sole auditor. The Audit Report on the annual accounts of Tamil Nadu Electricity Regulatory Commission is forwarded separately to the State Government.

The instances mentioned in this Report are those, which came to notice in the course of test audit for the period 2016-17 as well as those which came to notice in earlier years, but could not be reported in the previous reports; matters relating to the period subsequent to 2016-17 have also been included, wherever necessary.

The audit has been conducted in conformity with the Auditing Standards issued by the CAG.

was to be issued only after the successful bidder furnishing the BG and signing the agreement. However, TANCEM issued PO in haste without signing the agreement and submission of BG by ACC, which was devoid of merits especially when it got the agreement signed by all other suppliers of this contract. Though this failure contributed to release of withheld amount, no internal responsibility was fixed for this serious lapse.

- Acceptance of LOI is must before initiating any action for enforcement of the contract in the Court of law. Therefore, issue of PO without getting the agreement signed and collecting BG was an undue favour, which resulted in non-levy of LD of ₹ 2.77 crore for breach of contract by ACC.

The Government replied (June 2017) that the Board of Directors (BOD) of TANCEM decided to waive the penalty as there was genuine difficulty faced by ACC in supplying the ordered quantity of cement and the support assured by ACC to Amma Cement Supply Scheme. The reply is not tenable as the waiver of LD by BOD was mainly on account of not having the valid agreement with ACC as discussed in the BOD's meeting, which revealed its improper contract management.

Tamil Nadu Generation and Distribution Corporation Limited

3.10. Import of coal by TANGEDCO

Introduction

3.10.1 The total installed capacity of thermal power stations¹¹⁵ owned by TANGEDCO as on 31 March 2017 was 4,320 MW for which 21.5 Million Metric Tonnes (MMT) of coal was required annually. As there was short supply of domestic coal¹¹⁶, TANGEDCO started (2005) to procure imported coal as per the advice (2004) of GOI through STC,¹¹⁷ MSTC Limited, MMTC¹¹⁸ and TNPL¹¹⁹ at negotiated prices. From July 2012 onwards, TANGEDCO switched over to global tender system to obtain competitive prices. Accordingly, TANGEDCO floated seven tenders between July 2012 and February 2016 and procured 24.4 MMT of coal valued at ₹ 12,247 crore as detailed in Annexure-22. To assess the economy and effectiveness of the procurement of imported coal through tender, we analysed five tenders floated between October 2013 and February 2016 for a total quantity of 21.6 MMT of coal valued at ₹ 11,233 crore. The results of audit are discussed below:

¹¹⁵ North Chennai, Tuticorin and Mettur.
¹¹⁶ Mahanadi Coalfields Limited, Eastern Coalfields Limited, Singareni Collieries Company Limited and Central Coalfields Limited.
¹¹⁷ State Trading Corporation.
¹¹⁸ MMTC Limited (A Government of India enterprise).
¹¹⁹ Tamil Nadu Newsprint and Papers Limited (TNPL) (A Government of Tamil Nadu

Absence of Policy framework for import of coal

3.10.2 We noticed that though TANGEDCO had started floating global tenders for import of coal since 2012, it had not evolved any specific policy for importing coal. In the absence of a comprehensive policy, there was no direction for key decisions for import, which led to excessive Bid Qualification Requirement (BQR), non-adoption of e-tendering and variable pricing method for payment of imported coal, etc., as detailed in the subsequent paragraphs.

Inadequate time for submission of bids

3.10.3 As per Rule 20(1) of the Tamil Nadu Transparency in Tenders Rules, 2000 (Tender Rules), the procuring entities are required to allow a minimum period of 30 days for submission of tenders valuing more than ₹ two crore from the date of publication of Notice Inviting Tender (NIT). The Rule 16(1) of the Tender Rules provided that the procuring entities should make available the tender documents for sale from the date of publication of tender. We noticed that after publication of NIT, TANGEDCO closed the sale of tender documents much earlier to 30 days for submission of bids contrary to the Rule 20 of the Tender Rules as detailed below:

Table 3.10.1: Time allowed for submission of bids

Tender No.	Date of publishing in News-papers	Date of publishing in website and commencement of sale of tender document	Closing date of sale of tender document	Due date for submission of bids	Time gap 4 - 3	Number of bids received
(1)	(2)	(3)	(4)	(5)	(6)	(7)
48	05-11-2013	07-11-2013	06-12-2013	16-12-2013	30	3
49	29-05-2014	29-05-2014	26-06-2014	04-07-2014	29	3
50	08-02-2015	09-02-2015	03-03-2015	12-03-2015	23	3
51	06-12-2015	07-12-2015	28-12-2015	06-01-2016	22	1
52	07-02-2016	08-02-2016	17-02-2016	22-02-2016	10 ¹²⁰	4

Since the time allowed for purchase of tender documents and submission by the prospective bidders from the date of publishing of the tender was gradually reduced from 30 to 10 days without any reasons on record, the number of bids received remained at three/four throughout the audit period thereby limiting competition.

The Government stated (October 2017) that it had allowed window time in accordance with Tender Rules. But audit analysis revealed that 30 days of time was not available between commencement and closing date of sale of tender document, hence the provision of tender rules was not followed in its spirit.

Injudicious fixation of Bid Qualification Requirement (BQR)

3.10.4 The criteria fixed (July 2012) in the BQR for import of coal stipulated that the bidder should have supplied one MMT of imported coal during any one of the preceding four financial years and have an annual average turnover of ₹1,000 crore during the preceding three financial years. We noticed that the turnover criteria of ₹1,000 crore was more than the Purchase Order value ranging from ₹ 68 crore to ₹ 330 crore for Tuticorin Port and ₹ 170 crore to ₹ 1,295 crore for Ennore Port. It is pertinent to note that the criteria fixed (July 2010) by TANGEDCO for all tenders was 25 per cent of the estimated value of the tender. Moreover, TNPL and NTECL fixed turnover criteria of NIL and ₹ 281 crore (26 per cent) against their value of import of ₹ 167 crore and ₹ 1,092 crore, respectively.

The Government replied that (October 2017) same BQR was fixed for supply to both the ports so as to finalise the tender in time and to ensure coal supplies continuously.

The fact, however, remained that after obtaining separate price bids for Ennore and Tuticorin discharge ports, the purchase orders were issued in the ratio of 60:40 between L-1 and L-2 (matching price with L-1). Therefore, the turnover criteria fixed at ₹ 1,000 crore for each tender against the purchase order value ranging from ₹ 68 crore to ₹ 330 crore for Tuticorin port and ₹ 170 crore to ₹ 1,295 crore for Ennore port was not justified. Due to fixation of higher turnover criteria, only three/four bidders repeatedly participated and three¹²¹ of them shared 96 per cent of the total import value of ₹ 8,884.44 crore in all the five tenders covered by audit.

Selection of inappropriate price discovery mechanism

3.10.5 The importers of coal generally finalise the competitive prices based on (i) e-submission¹²² method, (ii) reverse auction¹²³ method and (iii) variable price¹²⁴ method. However, TANGEDCO did not adopt any of the above methods but followed the conventional method of obtaining bids in sealed covers. We noticed that the Government of Tamil Nadu (GoTN) ordered (May 2007) that e-submission of tenders should be followed for procurement exceeding a value of ₹ 10 lakh by major infrastructure agencies like PWD,

¹²¹ Adani, KISPL/KISSPL and MSTC.

¹²² E-submission of tender means submission of bids on-line in the website.

¹²³ ✓ Reverse auction is a method by which the sellers compete with each other by decreasing their quote starting from the price declared by the procuring entity on the date/time of opening of on-line bids.

¹²⁴ For example, the contracted price was USD 66.88 per MT and the Indonesian Coal Index was 47.50 for the tender opened on 12 March 2015. If the Index moved down to 45.80 on the date of import (20 April 2015), then the price payable would be USD 64.49 per MT and not at the contracted price of USD 66.88 per MT.

Highways Department, Tamil Nadu Electricity Board, etc.

We further noticed that sister PSUs viz., TNPL, NTECL,¹²⁵ and NTPPL,¹²⁶ had adopted online reverse auction method and obtained lower quote compared to the initial quotations received by them through off-line. But, TANGEDCO did not practice the reverse auction method thereby lost an opportunity of getting lower price for their imported coal as detailed in the following table.

Table 3.10.2: Comparative rates obtained by TANGEDCO and other PSUs

TANGEDCO							Other PSUs			
Name of the bidder	Tender Number	Tender Date	Date of price negotiation	Rate quoted off-line (USD per MT)	Rate as per price negotiation (USD per MT)	Percentage of price reduction in negotiations	PSU's name	Quoted price in the bid (off-line) (USD per MT)	Quoted price in reverse auction (on-line) (USD per MT)	Percentage of price reduction in reverse auction
Adani	48	31.10.13	18.01.14	99.76	91.05	8.68	TNPL	81.60	72.75	10.85
KISPL	48	31.10.13	18.01.14	102.90	92.72	9.89	TNPL	96.50	70.50	26.64
MSTC	49	28.05.14	06.08.14	104.76	87.00	16.95	TNPL	90.00	73.00	18.89
KISPL	49	28.05.14	06.08.14	106.28	88.60	16.63	TNPL	77.85	72.89	6.49
Adani	50	05.01.15	14.05.15	94.40	77.00	18.43	NTECL	69.54	56.29	19.18
KISSPL	50	05.01.15	14.05.15	97.55	78.50	19.53	NTECL	74.56	57.40	23.02
Adani	52	05.02.16	25.02.16	61.85	61.00	1.37	TNPL	54.05	45.20	16.37

The reduction in the quoted prices obtained by TANGEDCO through negotiation from the bidders was ranging from 1.37 to 19.53 per cent against the reduction of 6.49 to 26.94 per cent obtained by other PSUs through reverse auction during the same period from the same bidders who participated in the bids of TANGEDCO.

It is pertinent to mention that the bidders have confirmed the fact, as early as in July 2013, that they were forced to quote higher prices for TANGEDCO by loading additional cost for possible increase in the international price during long delivery period of six to eight months. TANGEDCO, however, never switched over to the variable price method especially when the price of imported coal continuously declined from USD 92.06 per MT (October 2012) to USD 61.00 per MT (February 2016). It is pertinent to note that Central Electricity Regulatory Commission had recommended (2005) to adopt variable price method for bid evaluation and payment for import of coal.

Our independent analysis of 131 out of 297 consignments of imported coal received under five tenders during the review period revealed that the pricing under variable price method would have resulted in overall reduction in payments to the extent of ₹ 746.13 crore as detailed in the Annexure-23.

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NTPC Tamil Nadu Energy Company Limited, a joint venture company between NTPC Limited and TANGEDCO.

126

NLC Tamil Nadu Power Limited, a joint venture company between NLC Limited and TANGEDCO.



Thus, TANGEDCO's failure to switch over to the industrial practice of variable price method even after knowing all the major PSUs importing coal are adopting this method led to avoidable expenditure to ₹ 746.13 crore.

The Government replied (October 2017) that the firm price was found to be beneficial to TANGEDCO based on the long term analysis.

The reply is not tenable because:

- Adoption of FIRM price method of inviting tender and evaluation followed by TANGEDCO was contrary to the practice of inviting bids on variable price basis by other PSUs viz., NTECL, NTPL, NTPC, and various SEBs.¹²⁷
- In all the tenders covered in Audit, the variable price method of contract was beneficial both at the time of fixation of price as well as at the time of payment to suppliers.
- Examination by audit revealed that TANGEDCO did not carry out any long term analysis of the benefits under FIRM pricing vis-a-vis variable pricing method in the preceding five years.

Contract Management for import of coal

Non-adherence to the directives of Ministry of Shipping

3.10.6 The GOI policy (November 2001) stipulate that import contracts by all Government departments/PSUs are required to be finalised on Free on Board (FOB) basis to retain control on shipments and to extend maximum cargo support to the Indian shipping industry. The policy further stipulated that No Objection Certificate (NOC) should be obtained from the Ministry of Shipping, GOI for deviation from FOB basis on each and every case.

We noticed that TANGEDCO finalised all coal import contracts on CIF basis but it did not obtain NOC from the Ministry of Shipping, GOI as required.

The Government replied (October 2017) that NOC would be obtained for coal import from Ministry of Shipping, Government of India.

Non-furnishing of the Certificate of Origin

3.10.7 As per tender conditions, production of Certificate of Country of Origin (COO) by the suppliers for all consignments was mandatory for getting concessional customs duty and ensuring the genuineness of the import. The tender condition also stipulated that payments shall be made by TANGEDCO only upon furnishing of COO by the suppliers.

The test check by Audit revealed that 176 out of total 297 consignments were originated from Indonesia as per Bill of Lading. But the COO was not produced by the suppliers in respect of all the 176 consignments. Therefore, the genuineness of the source of import was not established in respect of 176

consignments till date (October 2017). However, the payment of ₹ 5,767.31 crore was made to the supplier without obtaining mandatory COO. The Government replied (October 2017) that the source of supply was established through documents such as Bill of Lading, insurance, certificate of origin furnished by the testing agency. The fact, however, remained that the COO from Government of the exporting country was not obtained in all the 176 consignments which was mandatory as per the TANGEDCO's tender conditions.

Acceptance of lower grade of coal

3.10.8 As per the tender conditions, the Gross Calorific Value (GCV) of the imported coal was required to be at 6,000 Kcal/Kg with an acceptable range between 5,800 and 6,700 Kcal/Kg. While there is no premium for GCV exceeding 6,000 Kcal/Kg, for GCV lower than 6,000 Kcal/Kg, the price was to be adjusted as per the formula¹²⁸ specified in the tender.

To ensure GCV of the coal supplied as per tender conditions, supplier was required to engage independent testing agency with the approval of TANGEDCO. The quality of coal is decided based on the reports of these testing agencies. Against this practice, our verification of the system for quality testing in place in other PSUs revealed that:

- TNPL select the testing agency for each consignment of coal from its empanelled testing agencies through a lot system and coal samples were collected from the automatic coal sampler installed in the conveyor at the TNPL plant.
- NTECL also select the testing agency from its empanelled testing agencies.
- The quality of coal will be finally decided by both TNPL and NTECL based on the test conducted at their own laboratories in their plants.

On the contrary, TANGEDCO did not collect coal samples on its own but was solely dependent on the third party testing agency for collection of samples as well as for testing both at the laboratories of TANGEDCO and the testing agencies. This deficiency led to variation of only \pm one per cent in the GCV reported by the third party testing agencies as well as TANGEDCO's own laboratory.

Our independent verification of the coal quality test reports from the laboratory of the Customs Department¹²⁹ in respect of 121 consignments of TANGEDCO revealed that GCV was lesser than that of the discharge port laboratory test reports submitted by the suppliers as detailed below:

Difference in GCV between customs report and suppliers test reports (Kcal/Kg)	Number of consignments	Total Quantity (MMT)	Penalty leviable as per GCV reported by Customs (₹ in crore)
0-200	30	2.09	19.62
201-500	29	1.92	82.92
501-1,000	33	2.29	250.29
1,001-1,500	20	1.38	274.27
1,501-2,000	8	0.56	165.81
Above 2,001	1	0.05	20.77
Total	121	8.29	813.68

Thus, TANGEDCO had accepted lower grade of coal as revealed in the customs test reports but it made payment for coal having GCV as per the test results submitted by the suppliers' testing laboratory and made excess payment of ₹ 813.68 crore.¹³⁰

The Government replied (October 2017) that in view of the questionable samples as per the non-standard procedure adopted by the Customs Department and due to non-communication of the test results, it was not in a position to comment on the test results of Customs Department. The fact, however, remained that the test results of the Customs' laboratory, which could be taken as legal evidence, indicated wide variations in respect of 121 consignments and hence, the same should not be ignored altogether and required detailed investigation by TANGEDCO.

Conclusion

Before embarking on import of coal on regular basis, TANGEDCO did not consider the prevailing best practices in the industry to frame an import policy as directed by its BOD. This resulted in fixation of higher levels of turnover criteria, which led to elimination of small bidders from the competition. Further, TANGEDCO did not adopt the best practices such as e-tendering, reverse auction and inviting and evaluation of bids on variable price methods. Non-adherence to variable price method led to avoidable expenditure to the extent of ₹ 746.13 crore.

TANGEDCO had made payments to the supplier without obtaining the mandatory COO in respect of 176 out of 297 consignments test checked in audit.

The price of imported coal mainly depends on its GCV. Despite very significant difference in GCV between the test reports submitted by the suppliers and the one revealed in the test reports of Customs authorities, TANGEDCO did not independently verify the correctness of GCV reported by

the suppliers. This resulted in excess payment to the suppliers to the extent of ₹ 813.68 crore.

3.11 Undue benefit

Failure of TANGEDCO to recover the cost of transmission lines from the client as per the provisions of Distribution Code led to undue benefit of ₹ 12.75 crore

Tuticorin Port Trust (TPT) formed (August 2010) a Special Purpose Vehicle Company viz., Tuticorin Coal Terminal Private Limited (TCTL) and also entered (September 2010) a concession agreement with TCTL for development of Cargo Berth-II¹³¹ for handling bulk cargo in Tuticorin Port. As per the agreement, TPT would arrange for obtaining power supply from TANGEDCO to TCTL. TCTL requested (October 2012) TANGEDCO to provide supply of 12,000 KVA of power at 110 KV level and subsequently reduced (October 2013) its demand for 7,000 KVA of power through the overhead lines for a distance of 8.6 KMs from a 230 KV Sub-station (SS) located outside the port trust area.

TANGEDCO initially proposed (February 2014) to recover the entire cost of laying of 110 KV lines from the Sub-station to the port trust area from TCTL. But, subsequently decided (July 2014) to bear the cost of laying of transmission lines by itself, as the proposed line predominantly passed through port trust area belonging to TPT, which was not owned by TCTL. The work was completed in April 2017 at a total cost of ₹ 14.75 crore. Out of this amount, TANGEDCO had borne ₹ 12.75 crore and the balance of ₹ 2.00 crore was recovered from TCTL for execution of infrastructure work within its premises.

In this connection, Audit observed the following:

- TPT and TCTL were revenue sharing partners of the project with onus of providing electricity supply for the project resting with TPT. Moreover, at the end of the concession period of 30 years, TPT would be the owner of all the infrastructure created in the project site including the 110 KV transmission lines. Therefore, the cost of ₹ 12.75 crore borne by TANGEDCO towards construction of 110 KV line was to be recovered from TCTL.
- The recovery of the cost of transmission line from TCTL was also justified by the Regulation 29 (16) of the Tamil Nadu Electricity Distribution Code, which stipulated that the power distribution licensee (TANGEDCO) should take up execution of transmission lines within the premises of the consumer only after the consumer paying 100 per cent of the estimated amount. Thus, the expenditure of ₹ 12.75 crore borne by TANGEDCO for laying of the transmission lines was unwarranted.

Estimated location in the port used for stationing the vessels during loading and

① 70
P.O.NO.113 DT,11.01.2018

**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

From

Er. N.Sathiaseelan, B.E., M.B.A, M.I.E
Certified Energy Manager,
Chief Engineer/Mech/Coal
II Floor, NPKRR Maaligai,
No.144, Anna Salai,
Chennai – 600 002.

To

M/s ADANI GLOBAL PTE LTD.,
No.80, Raffles Place,
33-20, UOB Plaza II,
Singapore - 048624.

Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F. OT/P.O.No. 113 /D 10 /18,dt. 11.01.18

Sir,

Sub: Tamil Nadu Generation and Distribution Corporation Ltd – Supply of total quantity of 20.00 Lakh Tonnes of imported Steam coal of any origin for TANGEDCO's Thermal Power stations for delivery at Kamarajar Port (Ennore)/Karaikal Port and VOC Port/Tuticorin for the period from January 2018 to May 2018 – Purchase Order – Issued.

- Ref:1) Specification No. Coal 53 dated 14.11.2017
2) M/s AGPTE's e- bid submitted on 06.12.2017
3) E-Reverse auction held on 12.12.2017
4) Minutes of the Negotiation meetings held on 15.12.2017, 18.12.2017 and M/s AGPTE's Letter dated 21.12.2017
5) LOA vide Lr.No.CE/M/Coal/SE/M/Coal/E5/A1/F.SPEC53/D.04/18,dt.03.01.2018

1.0 ACCEPTANCE:

With reference to your offer and the other correspondences cited above, I, acting for and on behalf of and by the order and direction of the Tamil Nadu Generation and Distribution Corporation Ltd. hereby accept your offer for the supply of Imported Steam coal with the specification and the price noted in clause 2.1, subject to the terms and conditions set forth herein.



2.0 MATERIALS AND PRICE

2.1 PRICE :

TABLE I

Sl. No.	Description	Qty. in Metric Tonnes	Price USD/MT	Total Price(USD)
1.	Imported Steam Coal of any Origin (C&F Price/Metric Tonne) as per the Specification in Table II and Price Basis as follows: GCV (Air Dried Basis): 6000 Kcal/Kg Total Moisture (As Received Basis):15% Ash Content (Air Dried Basis): 6 % Sulphur (Air Dried Basis): 0.6 %	Kamarajar Port, Ennore/Karaikal Port 14,00,000	73.55	10,29,70,000
		VOC Port/ Tuticorin 6,00,000	75.55	4,53,30,000
2.	Insurance Premium: (Reimbursable at actuals subject to a maximum of 0.04 USD/MT for both Ennore/ Karaikal Port and VOC Port, Tuticorin)	Kamarajar Port, Ennore/Karaikal Port 14,00,000	0.04	56,000
		VOC Port/ Tuticorin 6,00,000	0.04	24,000

Note :

Total guaranteed quantity of not less than 14.00 Lakh tonnes with +3% shipping tolerance to Kamarajar Port, Ennore/Karaikal Port and 6.00 Lakh tonnes with +5% shipping tolerance to VOC Port/Tuticorin. The option for delivery of consignments at Karaikal Port instead of Kamarajar Port, Ennore shall be exercised by the purchaser and not by the seller. TANGEDCO shall have the option of exercising the shipping tolerance.

TABLE - II

Sl.No.	Description	Unit	Specification	
1	Total Moisture (As received basis)	%	7-23	
2	Inherent Moisture(Air Dried Basis)	%	4-14	
3	Ash Content (Air Dried Basis)	%	2 - 8	
4	Fixed Carbon (Air Dried Basis)	%	30-50	
5	Volatile Matter (Air Dried Basis)	%	25-42	
6	FC/VM Ratio	--	0.80 to 1.3	
7	Total Sulphur (Air Dried Basis)	%	0.3-0.8	
8	Gross Calorific Value (Air Dried Basis)	Kcal/Kg.	5800-6700	
9	Gross Calorific Value(As Received)	Kcal/Kg.	5400-6300	
10	NCV (As Received Basis)	Kcal/Kg.	5100-6000	
11	Grindability of coal according to Hard Grove Index (HGI)	--	45-60	
	Ash Fusion Temperature - (IDT)	°C	1200	
	-(Softening Point)	°C	1250	
	-(Flow Point)	°C	1300	
12	Size of Coal	0 to 50 mm	%	100
		0 to 3 mm	%	< 16.5
13	Country of Origin		Any Origin	