

## India

### Overweight (no change)

#### Highlighted Companies

#### Bharat Petroleum

REDUCE, TP Rs352, Rs437 close

We maintain our Reduce rating with a TP of Rs352. This is based on Rs331 for core business (1.5x Mar 23F P/BV), 18% ROE in FY23F and Rs21 value for E&P).

#### Hindustan Petroleum HOLD, TP Rs285, Rs300 close

We reiterate our Hold rating with a TP of Rs285, which is based on 1x Mar 23F P/BV and 15% ROE in FY23F. Large offbalance sheet debt will likely keep valuations in check.

#### Indian Oil Corp

ADD, TP Rs150, Rs127 close

We reiterate our Add rating with a TP of Rs150, which is based on 1.1x Mar 23F P/BV and 14% ROE in FY23F. Near 7% dividend yield is the key rerating catalyst.

Summary Valuation Metrics							
P/E (x)	Mar21-F	Mar22-F	Mar23-F				
Bharat Petroleum	5.34	12.32	11.02				
Hindustan Petroleum	4.24	7.6	6.76				
Indian Oil Corp	5.41	7.45	6.48				
P/BV (x)	Mar21-F	Mar22-F	Mar23-F				
Bharat Petroleum	1.59	2.17	2				
Hindustan Petroleum	1.13	1.08	0.97				
Indian Oil Corp	1.02	0.96	0.89				
Dividend Yield	Mar21-F	Mar22-F	Mar23-F				
Bharat Petroleum	19.93%	4.51%	4.51%				
Hindustan Petroleum	7.89%	4.78%	4.67%				

9.42%

6.28%

7.85%

Analyst(s)

Indian Oil Corp



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# **Oil & Gas Refinery**

## A tale of two refineries

- BORL and HMEL have essentially not made a profit since inception. The resultant high debt/equity (over 300%) in these JVs goes largely unnoticed.
- Root cause of poor performance is high reliance on debt in project financing.
   We could see a similar story unfold with HPCL's upcoming Rajasthan refinery.
- We reiterate sector Overweight with Add on IOC (TP Rs150), Hold on HPCL (TP Rs285) and Reduce on BPCL (TP Rs352).

#### A tale of two refineries

BPCL promoted Bharat Oman Refineries (BORL) while HPCL started Hindustan Mittal Energy (HMEL) with private JV partners. Both companies built complex refineries which came on stream around 2011. Given their classification as JVs, both companies have historically not been consolidated into their parent accounts. Consequently, information on their financials has been sketchy (especially for HMEL) and their large debt goes largely unnoticed, in our view. Hence, we prefer IOC which has limited such off-balance sheet debt. In this note, we take a deep dive into the financials of the two JVs.

#### Essentially no profit since inception and very heavily leveraged

Since BORL commenced operations in FY12, its cumulative performance over FY12-21 has been a net loss of Rs11.2bn. Hence, net debt in Mar 2021 was Rs111bn with debt/equity ratio of 312%. Optically, HMEL has fared better as it has reported a cumulative profit of Rs30.9bn since inception. However, this includes Rs46.4bn gain on sales tax prepayment and Rs5bn on lowering depreciation rate. HMEL's net debt (including vendor financing and crude loans) in Mar 2021 was Rs371bn with debt to equity of 348% (the debt was elevated also due to a new petchem project).

#### High debt - the root cause of troubles

The financial performance of these JVs needs to be seen in the context of gross refining margins (GRMs) which were mid-cycle in FY12-14, very high during FY15-18 and poor in FY19-21. While GRMs have not been abnormally low over the last 10 years, the poor performance was largely driven by the very high reliance on debt in initial project financing, in our view. Consequently, unless execution is flawless (commercial production starting in the shortest period and no operational hiccups thereafter) the company falls into a debt trap. We see similar risks for HPCL's upcoming Rajasthan refinery where our channel checks suggest that there is significant escalation in project cost (officially at Rs431bn).

#### Retain Add on IOC, Hold on HPCL and Reduce on BPCL

We retain our Overweight stance on the sector given expectations of volume and GRM recovery with IOC remaining our top pick. We prefer IOC to HPCL. While both are at similar valuations, HPCL has large off-balance sheet debt in its joint ventures, HMEL (Rs371bn) and the Rajasthan refinery (Rs331bn projected debt which is likely to rise), which makes it more expensive. We retain Reduce on BPCL as the stock is above fair value with investors focusing on upside from strategic sale, which is uncertain, in our view.



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## A tale of two refineries

## Context to the financial performance

### GRMs have not been abnormally low in the last 10 years >

Singapore complex GRMs (Reuters) ranged between US\$5/bbl and US\$8/bbl over FY12-19, collapsing sharply only in FY20 and FY21 as the full impact of Covid became evident. However, this GRM number alone does not capture the full picture on refining profitability as it is based on just product cracks and a predefined product slate proportion (actual slate will differ across refineries).

Actual GRM profitability is impacted by two other factors. Firstly, the differential between heavy/sour and sweet/light crude which is crucial for more complex refiners (higher the differentials, better for the complex refiners). Secondly, the cost of crude itself since fuel and loss on crude processing is normally around 8%.

Given the historical data (Figure 2), we believe the GRMs were mid-cycle in FY12-14, very high during FY15-18 and poor in FY19-21. On the whole, GRMs have not been abnormally low in the last 10 years, in our view.

Figure 2: GRM and its drivers (US\$/b	bl)									
Y/E 31 Mar	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Reuters Singapore Complex GRM	8.4	7.7	5.6	6.4	7.5	5.9	7.2	4.9	3.2	0.5
Brent crude (US\$/bbl)	114.5	110.6	107.6	85.5	47.6	49.0	57.6	70.1	61.0	44.9
Spreads over Dubai Crude (US\$/bbl)										
Diesel	15.6	15.5	16.8	17.1	13.7	11.2	12.9	15.5	14.4	5.5
Jet Fuel	15.1	16.1	16.1	15.4	12.8	11.2	12.1	13.3	12.2	1.9
Naphtha	2.9	1.9	-3.5	-1.8	2.8	0.5	0.3	-3.7	-6.1	-0.6
Furnace Oil	-11.8	-13.7	-14.7	-12.1	-8.7	-8.0	-7.5	-7.0	-11.5	-5.4
Gasoline	15.0	16.5	10.8	11.8	14.7	9.6	10.7	5.7	6.4	0.9
LPG	-34.4	-32.1	-29.4	-22.1	-10.5	-14.4	-13.2	-23.6	-20.5	-9.4
Crude differentials										
Arab Light vs Arab Heavy pricing differential	3.6	3.6	4.2	4.3	3.0	2.8	2.2	2.3	2.2	0.3
Brent-Dubai differential	4.6	3.7	3.1	1.8	1.7	2.2	1.8	1.2	0.8	0.5
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#### Headline GRMs can be misleading >

While analysing the historical financials of BORL and HMEL, we have worked out the GRMs and cash opex based on reported financials. So gross margins have been estimated based on sales value less cost of crude/taxes/freight, with the rest of costs (excluding interest, depreciation, forex) considered as cash operating costs to arrive at EBITDA. We have accordingly worked out the GRM based on crude throughput for both JVs (see Figures 5 and 6).

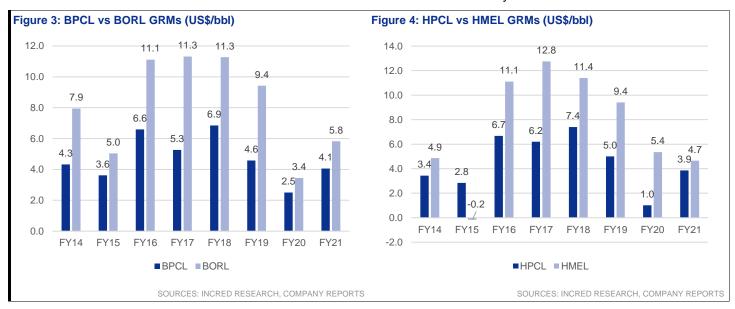
We find such actual GRMs (especially for HMEL) are way below the GRMs normally mentioned by management. For example, in FY18, HPCL's management quoted that HMEL GRMs were around US\$15/bbl, whereas we estimate it at US\$11.4/bbl. The point is that GRMs can be calculated in various ways (treatment of sales tax benefit for HMEL for example could be different) and it is important to cross check actual GRM levels as per reported financials to ensure accurate forecasts.

#### Higher complexity does not mean better financials >

While building new refineries, managements always highlight how the higher complexity of these new refineries will translate into significantly higher GRMs. A direct comparison between older and newer JV refineries of BPCL and HPCL can be made for the last eight years which would also take care of inventory gains/losses in each year (see Figures 3 and 4). Past data indicates that while the newer complex refiners will generally earn superior GRMs, the extent of premium is not a fixed number. Higher complexity yields higher premiums under the right conditions (FY15-18), but this premium drops in a downturn, especially if crude differentials contract.



The other more crucial point is that the higher complexity comes at a higher capital cost and, hence, there may not necessarily be a high net benefit. This is evident from BORL/HMEL financials of the last 10 years.



# Need for refining capacity but limited financial muscle to build it ➤

All the three oil marketing companies (OMCs) have historically aimed at ensuring broad refining self-sufficiency, i.e., growing their refining volumes in line with marketing volumes. While minimum economic scale (and hence capex) remains uniform across the sector, IOC's financial muscle has historically been well above that of BPCL/HPCL. Hence, while IOC could put up a new 9mt greenfield refinery at Paradip on its own balance sheet, the other two (BPCL/HPCL) have had to rely on creating JVs with external private parties. The stake of BPCL/HPCL in these JVs was historically limited to 50% which resulted in the JVs being classified as private entities outside the purview of government audit and regulations (thus enabling them to run their businesses like private enterprises).

## BORL and HMEL have no profit and high debt

## BORL debt will now be reflected in BPCL financials >

BORL's 6mt refinery at Bina, Madhya Pradesh (MP) state in Central India, came on stream in 2011 (initial capex Rs122bn) with a Nelson Complexity Index of 11.58. It was targeted to supply BPCL's customers in Central and North India. In the last 10 years, its capex was utilised only for capacity debottlenecking of 7.2mt and the rollout of BS VI fuel norms (implemented over FY19 and FY20).

BORL's equity capital of Rs17.72bn was shared 50:50 between BPCL and its JV partner Oman Oil (OOC), with the MP government holding warrants which entitled them to a 5% stake. However, after an equity infusion in FY10, Oman Oil was unwilling to put in more capital, forcing BPCL to provide additional funds of Rs38bn in the form of warrants and loans. While the BPCL:OOC capital contribution was effectively 85%:15%, the 50:50 equity share was maintained over the last 10 years, in our view, to ensure that BORL remained a private company.

As a result of GOI's plans to sell its entire stake in BPCL, the latter has arrived at an agreement with OOC, buying out its stake and making BORL a 100% subsidiary (from Jun 2021).

While BORL commenced operations in Apr 2011, ramping up capacity utilisation levels took a few years. Given high leverage, this resulted in significant losses in the initial years. The subsequent boom years in refining allowed BORL to recover a bit, but the last two years (FY20/21) again dragged down the company due to Covid issues (however, note that FY21 results should have benefited from large inventory gains). So, over the life of the refinery (FY12-21), we estimate BORL



has lost Rs11.2bn and, as at Mar 2021, it had net debt of Rs110.6bn (debt/equity of 312%).

With BORL being accounted as a JV, its debt was not reflected in BPCL financials. But with BORL becoming a 100% subsidiary, this debt would be added to BPCL's consolidated debt from FY22.

While BORL is located in MP, the oil demand within that state is limited. Hence the BORL product had to be bought by BPCL outside the state which entails levy of 2% central sales tax (CST). As part of the MP government's incentive package, BORL was entitled to an exemption of CST. This benefit was exhausted in FY20 and resulted in BORL bearing an additional cost of Rs5bn in FY21 (note that the hit on account of CST depends on the level of oil price – the higher the price, the higher the hit). BPCL now plans to merge BORL with itself which would avoid a CST hit.

The MP government has also provided fiscal assistance in the form of interestfree VAT loan up to Rs2.5bn per annum for 15 years, beginning from the year of commercial production. The VAT loan is repayable in the 16<sup>th</sup> year from each year in which such VAT loan was received. The total gross value of VAT loan up to Mar 2021 was Rs22.3bn (accounted at fair value of Rs13.9bn).

Figure 5: BORL financials (F	Rs bn)									
Year to 31 March	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Balance sheet										
Net worth	18.6	22.6	19.6	11.7	15.3	33.3	43.2	44.2	36.2	35.4
Net debt	118.7	125.7	142.9	129.0	110.7	98.9	87.3	99.9	83.2	110.6
Deferred tax liability/(asset)		-7.0	-8.4	-13.0	-11.0	-7.1	-5.0	-4.7	-8.8	-9.2
Total	137.3	141.3	154.1	127.8	115.0	125.1	125.5	139.4	110.5	136.9
Fixed assets	107.5	104.1	105.7	104.8	103.9	102.5	110.8	115.3	114.3	107.7
Working capital	29.8	37.2	48.4	23.0	11.1	22.6	14.7	24.1	-3.8	29.2
Total	137.3	141.3	154.1	127.8	115.0	125.1	125.5	139.4	110.5	136.9
Net debt/equity	639%	556%	728%	1101%	725%	297%	202%	226%	230%	312%
Profit & Loss										
Total gross margins	9.13	16.71	18.91	13.79	33.61	34.86	35.20	27.19	13.97	19.33
Operating costs	6.17	10.21	10.62	11.83	12.57	9.12	9.34	9.14	10.17	8.28
EBITDA	2.96	6.50	8.29	1.95	21.04	25.74	25.87	18.05	3.80	11.05
Depreciation	-8.61	-10.90	-10.45	-9.97	-9.40	-7.79	-6.18	-6.54	-7.12	-5.59
Interest	-5.53	-5.28	-1.32	-4.72	-5.26	-5.97	-5.31	-9.26	-7.18	-7.54
Other income (incl forex)	0.02	0.21	-0.89	0.22	-0.56	0.24	0.80	-0.55	-1.68	0.99
Pre-tax profit	-11.16	-9.47	-4.37	-12.51	5.82	12.23	15.19	1.70	-12.17	-1.09
Current tax		0.01			0.04					
Deferred tax		6.98	1.40	4.61	-2.10	-4.14	-5.35	-0.64	4.14	0.33
Net profit	-11.16	-2.48	-2.97	-7.90	3.75	8.08	9.84	1.07	-8.03	-0.76
Refinery capacity utilisation	24%	79%	75%	85%	88%	87%	92%	79%	84%	65%
Crude processed mt	1.8	5.7	5.5	6.2	6.4	6.4	6.7	5.7	7.9	6.2
GRM US\$/bbl		7.43	7.95	5.04	11.11	11.32	11.27	9.42	3.45	5.83
Cash operating cost US\$/bbl		4.54	4.46	4.32	4.16	2.96	2.99	3.17	2.51	2.50
EBITDA US\$/bbl		2.89	3.48	0.71	6.96	8.36	8.28	6.26	0.94	3.33
						:	SOURCES: INC	RED RESEARC	CH, COMPANY	REPORTS

### HMEL's profits driven by accounting >

HMEL's 9mt refinery at Bhatinda, Punjab state in Northern India, came on stream at the end of 2011/early 2012 with a Nelson Complexity Index of 12.6 (higher than BORL due to a 0.4mt polypropylene [PP] plant). Initial project cost was around Rs150bn, which included a crude pipeline from the west coast. The refinery was aimed at supplying HPCL's customers in North India and HPCL has signed a contract to lift HMEL's entire liquid output (solids like PP, petcoke are marketed directly by HMEL) until Dec 2026. Similar to BORL, HMEL implemented capacity debottlenecking of 11.3mt in FY18 (capex Rs32bn) and rolled out BS VI compliant fuels from Apr 2020.

Contrary to BORL, HMEL has taken a more aggressive stance by deciding to build a new petchem cracker which is currently expected to come on line in 4QFY22. Declared capex is Rs217bn with polyethylene (PE) capacity of 1.25mt and PP capacity of 0.5mt (which would add to existing PP capacity of 0.47mt). Capital WIP as at Mar 2021 was Rs185bn.

HPCL and Mittal Energy Investments (MEI) each hold 48.99% of HMEL's equity capital of Rs80.4bn, with the balance 2.02% held by domestic financial institutions. MEI is the investment arm of the Mittal family which controls the steel company –



Arcelor Mittal. Contrary to OOC, MEI has taken an active role in the management of HMEL and provided financial support in line with its stake.

Similar to BORL, HMEL struggled in the initial years. The commercial production date was reset to 30 Dec 2012 from the initial assessment of 23 Feb 2012. Very high losses over FY12-15 were followed by boom years (FY16-19) which allowed the company to recover from its initial precarious financial condition. The FY20/21 performance would be impacted by Covid, though as noted above the FY21 results should have benefited from large inventory gains. So, over the life of the refinery (FY13-21), we estimate HMEL has made a profit of Rs30.9bn and as at Mar 2021 it had a net debt of Rs371bn with debt to equity of 348% (part of the debt would be due to the petchem project).

Note that the above figure on net debt is inclusive of acceptances of Rs17bn (amount payable to crude supplier, wherein supplier has extended the credit period from 30 days to 120 days for which HMEL bears financing charge) and Rs34bn on creditors for capex.

HMEL's apparent better financial performance (vis-à-vis BORL) is due to accounting profits rather than business performance. HMEL has lowered the depreciation rates of certain assets with effect from 1 Oct 2019 which we estimate would have added Rs5bn to net profit over FY20/21. Further, we estimate that the cumulative gains on account of settlement of CST dues (explained below) was Rs46.4bn over FY13-21. Excluding both items, HMEL reported a cumulative loss of Rs20.5bn over FY13-21.

HMEL was allowed a deferment of CST up to 300% of the fixed capital for 15 years and was also entitled to receive an interest-free loan (IFL) of Rs12.5bn from the government of Punjab (GoP). However, the GoP only provided Rs0.1bn. Therefore, HMEL adjusted the NPV of the CST amount payable to the GoP with the IFL and recognised the difference as an income. The adjustments against IFL were fully utilised in FY21 and hence from FY22 the CST benefit income would not be available to the company. However, HMEL would continue to enjoy the benefits arising out of the deferment of annual CST liability till FY25. The repayment of the same would start from the 16<sup>th</sup> year in 30 half-yearly instalments.

Figure 6: HMEL financials (F	Rs bn)									
Year to 31 March	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Balance sheet										
Net worth	37.7	55.0	42.3	31.2	44.9	75.8	92.1	105.5	100.1	106.7
Net debt	177.8	202.8	276.2	260.1	215.4	191.9	201.9	250.6	320.1	371.5
Deferred tax liability/(asset)	5.7	0.3	-13.5	-26.9	-15.6	-8.7	-7.7	-7.3	-12.8	-12.2
Total	221.2	258.1	304.9	264.4	244.8	259.0	286.3	348.8	407.4	466.0
Fixed assets	194.8	231.5	227.2	231.9	231.5	232.5	250.2	306.6	379.9	430.0
Working capital	26.4	26.6	77.8	32.5	13.3	26.5	36.0	42.2	27.5	36.0
Total	221.2	258.1	304.9	264.4	244.8	259.0	286.3	348.8	407.4	466.0
Net debt/equity	472%	369%	653%	835%	480%	253%	219%	238%	320%	348%
Profit & Loss										
Total gross margins	-0.57	1.83	20.12	-0.57	56.95	66.20	48.14	59.16	34.04	25.57
Operating costs	4.93	4.45	15.61	14.01	13.44	10.31	10.91	16.81	13.17	11.28
EBITDA	-5.51	-2.62	4.51	-14.58	43.51	55.88	37.23	42.36	20.87	14.30
Depreciation	-2.07	-4.24	-13.00	-7.55	-11.47	-11.39	-11.43	-12.11	-11.32	-10.27
Interest	-5.28	-5.35	-18.62	-19.94	-17.12	-10.73	-11.53	-13.40	-13.05	-9.18
Other income (incl forex)	0.03	4.69	1.01	12.09	5.98	8.75	7.58	2.40	0.50	8.58
Pre-tax profit	-12.82	-7.51	-26.11	-29.99	20.91	42.51	21.85	19.24	-3.00	3.42
Current tax	-0.01	0.00	0.00	0.02	-0.27	-4.70	-4.64	-4.11	0.00	-0.16
Deferred tax	-5.72	5.43	13.35	13.08	-4.68	-6.91	-0.92	-0.45	2.34	0.77
Net profit	-18.55	-2.08	-12.76	-16.88	15.95	30.91	16.29	14.68	-0.66	4.04
Refinery capacity utilisation	11%	47%	90%	70%	103%	101%	67%	91%	91%	75%
Crude processed mt	1.2	4.9	9.3	7.3	10.7	10.5	8.9	12.2	12.2	10.1
GRM US\$/bbl		0.93	4.86	-0.17	11.11	12.75	11.39	9.40	5.35	4.65
Cash operating cost US\$/bbl		2.25	3.77	4.25	2.62	1.99	2.58	2.67	2.07	2.05
EBITDA US\$/bbl		-1.33	1.09	-4.42	8.49	10.76	8.81	6.73	3.28	2.60
							SOURCES: INC	RED RESEARC	CH, COMPANY	REPORTS



## High debt - root cause of troubles

Refining is a highly cyclical industry with major boom and bust cycles. However, cycles even out over 10 years and, in our view, GRMs have not been abnormally low in the last 10 years. As explained above, in our view, GRMs were mid-cycle in FY12-14, very high during FY15-18 and poor in FY19-21. We believe the poor financial performance of the two JVs over the last 10 years is largely driven by very high reliance on debt in initial project costs. This is driven by two factors – the OMC's inability to infuse cash and easy availability of external debt.

As explained above, in our view, the initial objective of the JV structure was to limit cash outflow from the OMC. The JV structure allowed the equity burden to be shared by the JV partner and the debt portion of the project (up to 70% of project cost) to be raised on the JV balance sheet. The bigger issue, in our view, is the ease of debt availability. The anomaly here is while the debt on JV books may be non-recourse to JV owners, the lenders appear to be viewing it as quasi-government debt. This is borne out by the JV being able to raise fresh debt at competitive rates (10-year forex loan at 5.25%, 3-year rupee loan at 8.7% by HMEL), despite the already high level of gearing. HPCL management has reiterated often that it does not see the need to infuse fresh equity into HMEL (BORL will now be a closed chapter once it merges with BPCL).

The downside of funding the project with high debt levels is that unless execution is flawless (commercial production starting in the shortest period and no operational hiccups thereafter) the company falls into a debt trap. There is additional risk that the margin cycle could go into downturn during the initial years of commercial production. These risks have borne out for both HMEL and BORL.

HMEL continues to bear high risk given that future financial performance will critically depend on its new petchem cracker being able to start commercial operations in the shortest possible time.

We see similar risks for HPCL's upcoming 9mt Rajasthan refinery (with additional polymer capacity of 1.9mt). Management has estimated project cost at Rs431bn which will be financed with a 2:1 debt/equity ratio and project completion by FY24. HPCL's equity stake will be 74% with balance 26% being held by the government of Rajasthan. Our channel checks suggest that there is significant escalation in project cost, which could further push project completion to FY26F.

## Prefer IOC over BPCL/HPCL

Given their classification as JVs, both BORL and HMEL have historically not been consolidated into their parent accounts. Consequently, information on their financials has been sketchy (especially for HMEL) and their large debt goes largely unnoticed, in our view. Hence we prefer IOC which has limited such off-balance sheet debt.



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Oil and Gas ∣ India Oil & Gas Refinery ∣ September 30, 2021

Corporate Governance Report of Thai Listed Companies (CGR). CG Rating by the Thai Institute of Directors Association (Thai IOD) in 2020, Anti-Corruption 2020

ADVANC - Excellent, Certified, AMATA - Excellent, Certified, ANAN - Excellent, n/a, AOT - Excellent, n/a, AP - Excellent, Certified, ASP - Excellent, n/a, AU - Good, n/a, BAM - Very Good, Certified, BAY - Excellent, Certified, BBL - Very Good, Certified, BCH - Good, Certified, BCP - Excellent, Certified, BCPG - Excellent, Certified, BDMS - Excellent, n/a, BEAUTY - Good, n/a, BH - Good, n/a, BJC - Very Good, n/a, BLA - Excellent, Certified, BTS - Excellent, Certified, CBG - Very Good, n/a, CCET - n/a, n/a, CENTEL - Excellent, Certified, CHAYO - Very Good, n/a, CHG - Very Good, n/a, CK - Excellent, n/a, COM7 - Very Good, Certified, CPALL - Excellent, Certified, CPF - Excellent, Certified, CPN - Excellent, Certified, CPNREIT – n/a, n/a, CRC – Very Good, n/a, DELTA - Excellent, Certified, DDD – Very Good, n/a, DIF – n/a, n/a, DOHOME – Very Good, n/a, DREIT - n/a. n/a. DTAC - Excellent, Certified, ECL - Excellent, Certified, EGCO - Excellent, Certified, EPG - Excellent, Certified, ERW - Very Good, Certified, GFPT - Excellent, Certified, GGC - Excellent, Certified, GLOBAL - Very Good, n/a, HANA - Excellent, Certified, HMPRO - Excellent, Certified, HUMAN - Good, n/a. ICHI - Excellent, Certified, III - Excellent, n/a, INTUCH - Excellent, Certified, IRPC - Excellent, Certified, ITD - Very Good, n/a, IVL - Excellent, Certified, JASIF - n/a, n/a, JKN - Excellent, Declared, JMT - Very Good, Declared, KBANK - Excellent, Certified, KCE - Excellent, Certified, KEX - n/a, n/a, KKP - Excellent, Certified, KSL - Excellent, Certified, KTB - Excellent, Certified, KTC - Excellent, Certified, LH - Excellent, n/a, LPN - Excellent, Certified, M - Very Good, Certified, MAKRO - Excellent, Certified, MC - Excellent, Certified, MEGA - Very Good, n/a, MINT -Excellent, Certified, MTC - Excellent, Certified, NETBAY - Very Good, n/a, NRF - n/a, n/a, OR - n/a, n/a, ORI - Excellent, Certified, OSP - Very Good, n/a, PLANB - Excellent, Certified, PRINC - Very Good, Certified, PR9 - Excellent, n/a, PSH - Excellent, Certified, PTT - Excellent, Certified, PTTEP - Excellent, Certified, PTTGC - Excellent, Certified, QH - Excellent, Certified, RBF - Good, n/a, RS - Excellent, n/a, RSP - Good, n/a, S -Excellent, n/a, SAK - n/a, n/a, SAPPE - Very Good, Certified, SAWAD - Very Good, n/a, SCB - Excellent, Certified, SCC - Excellent, Certified, SCGP - n/a, n/a, SHR - Very Good, n/a, SIRI - Excellent, Certified, SPA - Very Good, n/a, SPALI - Excellent, Declared, SPRC - Excellent, Certified, SSP -Good, Declared, STEC - n/a, n/a, SVI - Excellent, Certified, SYNEX - Very Good, n/a, TCAP - Excellent, Certified, THANI - Excellent, Certified, TIDLOR - n/a, n/a TISCO - Excellent, Certified, TKN - Very Good, n/a, TMB - Excellent, Certified, TOP - Excellent, Certified, TRUE - Excellent, Certified, TU - Excellent, Certified, TVO - Excellent, Certified, VGI - Excellent, Certified, WHA - Excellent, Certified, WHART - n/a, n/a, WICE -Excellent, Certified, WORK - Good, n/a.

- CG Score 2020 from Thai Institute of Directors Association (IOD)

- Companies participating in Thailand's Private Sector Collective Áction Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of January 30, 2021) are categorised into: companies that have declared their intention to join CAC, and companies certified by CAC.

Recommendation Fran	nework
Stock Ratings	Definition:
Add	The stock's total return is expected to exceed 10% over the next 12 months.
Hold	The stock's total return is expected to be between 0% and positive 10% over the next 12 months.
Reduce	The stock's total return is expected to fall below 0% or more over the next 12 months.
	n of a stock is defined as the sum of the: (i) percentage difference between the target price and the current price and (ii) the forward net ock. Stock price targets have an investment horizon of 12 months.
Sector Ratings	Definition:
Overweight	An Overweight rating means stocks in the sector have, on a market cap-weighted basis, a positive absolute recommendation.
Neutral	A Neutral rating means stocks in the sector have, on a market cap-weighted basis, a neutral absolute recommendation.
Underweight	An Underweight rating means stocks in the sector have, on a market cap-weighted basis, a negative absolute recommendation.
Country Ratings	Definition:
Overweight	An Overweight rating means investors should be positioned with an above-market weight in this country relative to benchmark.
Neutral	A Neutral rating means investors should be positioned with a neutral weight in this country relative to benchmark.
Underweight	An Underweight rating means investors should be positioned with a below-market weight in this country relative to benchmark.