<u>CLEAN DEVELOPMENT MECHANISM (CDM) – AN</u> OPPORTUNITY OF REVENUE GENERATION

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Abstract:

Carbon trading, sometimes called emission trading, is a market-based tool to limit Greenhouse Gases (GHGs). Nowadays in the cities and even towns of India, a new business has come into picture, which though related to trading, is a departure from the usual commodity or stock trading. It is the trading of polluting gases, which is also known as carbon trading. It is basically a commercial activity that aims at protecting the earth from the harmful emission of gases from industries. The emergence of this opportunity of revenue generation by taking up structured Clean Development Mechanism (CDM) projects has brought about a novel dimension to accounting and taxation. The present article focuses on the contours of Kyoto Protocol, highlighting the financial and accounting challenges being faced by companies in a developing country like India, where it is an emerging field.

Keywords: Clean development mechanism, Greenhouse gases, Carbon credit, Certified emission reduction, Kytoprotocal

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Introduction

The Kyoto Protocol, which came intoforce and became legally binding on 15thFebruary 2005 when Russia ratified thetreaty, demands a 5.2% cut in greenhouse gasemissions from the industrialized world as awhole by 2012. India, along with China and Brazil,has emerged as one of its largest beneficiaries in terms of new source of revenue. This is due to Clean Development Mechanism (CDM),which is perhaps most exciting feature of thetotal scheme which allows 'Annex 1 countries'(A total of 36 countries are listed in Annex 1) tomeet their emission reduction targets bypayingfor greenhouse gas emission reduction in non-Annex 1 (developing) countries. Most Annex 1 countries have legally binding greenhouse gas emission reduction requirements under the Kyoto Protocol. These countries, instead of reducing emissions of their own companies, can 'buy' emission reductions in non-Annex 1 countries. Article 12 of the Kyoto Protocol states: "The purpose of the Clean Development Mechanism shall be to assist Parties not included in Annex 1 in achieving sustainable development and in contributing to the ultimate

India, being a non-Annex 1 country, isnaturally one of largest beneficiaries of the Kyoto Protocol.

Studies by Crisil and CII estimatethe value of the Indian CDM market at morethan a billion dollars per annum.

objective of the convention, and to assist Parties included in Annex 1 in achieving compliance

with their quantified emission limitation and reduction commitments."

Trading of Carbon Credits: Trading ofcarbon credits happens in the form of CERs orCertified Emissions Reductions. CERs are in the form of certificates, just like a stock. A CER is given by the CDM Executive Board to projects in developing countries to certify that they have reduced greenhouse gas emissions by one ton of carbon dioxide per year. For example, if a project generates energy using wind power instead of burning coal, and in the process saves (say) 25 tons of carbon dioxide per year, it canclaim 25 CERs (One CER is equivalent to one ton of carbon dioxide reduced).

CDM Executive Board: A board comprising 10 members supervises the operation of CDM. The Board has the final say on whether a projectis approved or not, and lays out procedures and guidelines for CDM.



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Verification: A CDM project is monitored or verified after the project has been approvedor registered by the CDM Executive Board. After the project is registered by the ExecutiveBoard, the Designated Operational Entity (DOE) periodically checks (usually once a year) whetheremission reduction has actually taken place ornot. It is only after verification by the DOE that CERs are delivered. There are presently 11 DOEsglobally, out of which five are represented in India.

Emergence of CER Credits: In March 2006, the United Nations Framework Conventionon Climate Change (UNFCCC) CDM RegistryAdministrator, for the first time, forwarded CERs to the holding account of a project participant representing a milestone in the implementation of the Kyoto Protocol's CDM. The forwarding of CERs to the holding accounts of project participants provides them with the end product of their efforts to reduce emissions of greenhouse gases in developing countries. These CERs have a ready market, where transactions happen on arm's-length basis and price quoted fluctuate as per the situation of demand and supply, and also according to the negotiation skills of the two parties.

Financial Accounting Issues of CDMCredits in India

Indiancompanies have started getting credit of CERsand some of them have also entered into salearrangement with buyers in the internationalmarket. As this is a new concept, it has given riseto interesting financial accounting dimensions. Issues involved are (i) how to account forexpenditure on CDM projects, (ii) whether ornot to account for self-generated CERs held withregistry, (iii) if credits are to be accounted, atwhat point of time these should be recognized in books of accounts and at what value, and(iv) how to account for sale consideration of CERs and its disclosure in accounts and notes.

Answers to these questions are found withinexisting pronouncements of ICAI as well as Schedule VI requirements. Taxation issues willnaturally follow.

CDM is a Journey, not a Destination:Developing a CDM project should not beviewed as a commercial transaction. It is not ahuge business but simply a profitable way ofmaking business environmentally conscious. A CDM project cannot be undertaken only on the basis of generation



of expected CERspoints and its market value. To be sustainable, the project must be financially sound by itself. There are several benefits of undertaking CDM projects, starting from reduced byusing energy-efficient equipment, additional depreciation on equipmentinstalledfor CDM projects, reduced regulatory oversight, image of a responsible corporate citizen, advance preparation for such time when Indiawill be given targets to reduce greenhouse gasemissions on its own account, and so on. The availability of a mechanism of recognition of carbon credits and its marketability provides additional revenues, and makes businessesmore competitive in the global market. As ofnow, there are no separate Indian accountingstandards to measure income and expenditure from carbon reducing projects. The existing standards can well account for new capitalinvestments, its depreciation, recurring costs and sale proceeds of CERs. Some experts feelthat CDM projects should be accounted foras a separate segment under AS-17 (segmentreporting). This line of thought does notappear practical if the concept of 'journey, notdestination' is properly followed. A CDM projectcannot be a profit center or cost center in itself. In a multi-segment industry, any CDM projectcan be identified with its parent segment.

CERs are Goods: CER credits are consideredgoods, as they have all the attributes thereof. As held by the apex court in TATA ConsultancyServices v. State of Andhra Pradesh [2004] 141Taxman 132/271 ITR 401, while dealing withissue of levy of sales tax on computer software, "a 'goods' may be a tangible property or anintangible one. It would become goods provided that the attributes thereof having regard to (a) its utility; (b) capability of being bought and sold; and (c) capability of being transmitted, transferred, delivered, stored and possessed." This approach was reiterated by apex courtin BSNL v. UOI [2006] 152 Taxman 135/282 ITR273/145 STC 1.

CER Sale is Other Income, Not Turnover:

We can safely conclude from the discussionabove that sale proceeds of CER credits cannot be included in Turnover. Section 43A(11) of the Companies Act, 1956, defines 'Turnover' as "the aggregate value of the realization made from the sale, supply or distribution of goods or onaccount of services rendered, or both". Part II of Schedule VI to the Companies Act, 1956, requires a separate disclosure of "profits or losses in respectof transactions of a kind, not usually



undertakenby the company or undertaken in circumstances of an exceptional or non-recurring nature, ifmaterial in amount". Though CERs are goods, their sale isundertaken, if not in exceptional circumstances, certainly on non-recurring basis. We have already seen that a CDM project cannot be aprofit/cost center in itself, and, therefore, it is neither possible nor desirable to attempt to workout separate profit or loss of any CDM project, with an accuracy expected from accountants. Acombined reading of Section 43A and ScheduleVI of the Companies Act clearly establishes that sale proceeds of CERs should be disclosed as aline item in schedule of other income, if amount is material.

Revenue Recognition on Sale of CERCredits:

As we have already concluded that CER credits are goods, their sales proceeds haveto be recognized in financial accounts as perpara. 11 of the Accounting Standard 9 ('revenuerecognition'). The conditions of para. 11 are self-explanatory, and are reproduced below: "11. In a transaction involving the sale of goods, performance should be regarded as being achieved when the following conditions have been fulfilled:

- the seller of goods has transferred to thebuyer the property in the goods for aprice or all significant risks and rewards of ownership have been transferred to thebuyer and the seller retains no effective control of the goods transferred to a degree usually associated with ownership; and
- 2. no significant uncertainty exists regardingthe amount of the consideration that will be derived from the sale of the goods."

Self-generated CERs Held with Registry:

Self-generated CERs held with registry cannot beincluded in Inventories as defined in AccountingStandard-2, as they are not held for sale in theordinary course of business. On the other hand, such credits meet all the criteria of 'IntangibleAsset' as defined in Accounting Standard-26i.e. (i) identifiability, (ii) control over a resource, and (iii) expectation of future economic benefitsflowing to the enterprise. Para 19 to 23 of Accounting Standard-26 dealwith recognition and initial measurement of anintangible asset. Para 20, which is the operating portion of this section, provides that an intangible asset should be recognized if, and only if:





- (1) it is probable that future economic benefitsattributable to the asset will flow to theenterprise; and
- (2) the cost of asset can be measured reliably.

Since we have already demonstrated that availability of CER credits is only an additional Benefit of a CDM project, it would be impossible measure the cost of self-generated CER assetreliably. Thus it can be concluded that thoughself-generated CERs held with registry are Assets (Intangible), they cannot be recognized in Accounts due to specific requirements of Accounting Standard-26.

Accounting Carbon Credits as per AS-12:

Some experts, having admitted that there are presently no guidelines/standards for accounting of Carbon Credits, have suggested that they be accounted as Government Grant. There logic is based on the definition of the term Government' prescribed in para 3.1 of AS-12, which reads: "Government refers to government, government agencies and similar bodies, whether local, national or international." The logic forwarded appears to be misplaced, as in case of financial transactions arising out of carbon credit, monetary consideration will not flow from any government or government agency. Intotal gambit, UNFCC CDM registry acts as a Demat banker recognising CER credits and keeping an account of it. There is no grant at all from any agency. Further, as soon as Carbon Credits are accounted as Government Grants, Accounting Standard-9 'revenue recognition' will cease to operate, leading to other accounting and taxation complications.

Tax Planning

CER credits are indeed intangible assets, held with registry. CER credits acquired from other parties for the purposes oftrading are recognized in the books at the cost of acquisition, whereas self-generated CER credits are not reflected in financial accounts. As issues for accounting of CER credits will appear forthe first time in Financial Year 2006-07, it's important to disclose the accounting policy adopted for this purpose. It would beappropriate to disclose units of CER held with registry in notesbi-furcating between purchased and self-generated. As CERs are capital assets, tax liability should be admitted under the head Capital Gain, and claim for concessional rate oftaxation should also be made if credit is held for more than 36months immediately preceding the date of transfer. This gives an opportunity to take a decision about timings of sale

of suchcredits, keeping a balance between cash flow needs, interestfactor and difference in rate of tax between long-term and short-term holdings. As there would be no cost of acquisition for self-generated CER credits, section 55(2) of the Income TaxAct will come into operation, and total sale consideration will be liable for Capital Gains Tax (long term/short term) according to the period of holding. In Indian circumstances, if sale of CER credits happen tooverseas buyers, of the property held overseas, such sale, though sale of 'goods', will not attract any sales tax.

Conclusion

It has been believed that GHGs will be slashed to a great extent and this novel mechanism will enable a host of developing countries to become self-sufficient in energy production resulting in revenue generation, leading thereby to improved living standards to their people. India will hopefully benefit from this mechanism and become even more environment friendly for its citizen as it was the main behind the development of this mechanism of carbon trading.

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