

AGREEMENT

BETWEEN

**BEIJING SINO-STEEL INDUSTRY & TRADE GROUP
CORPORATION & SHANXI PROVINCIAL CHEMICAL
DESIGN INSTITUTE, CHINA**

AND

VISA INDUSTRIES LIMITED, INDIA

FOR

**400,000 TPA CLEAN TYPE HEAT RECOVERY
COKE OVEN PROJECT
(DESIGN AND ENGINEERING)**

BEIJING

FEBRUARY 20th, 2004

In case the commissioning cannot be started for any reason not attributable to SSIT, SSIT has the right to get the above mentioned 10% payment 24 months after the date of final dispatch of design & engineering drawings from SSIT against the following documents:

- a. Four sets of original commercial invoice
- b. Certificate signed by SSIT stating that the commissioning of the plant is delayed by reasons not attributable to SSIT.

Any banking charges incurred in the People's Republic of China (P.R.C) shall be borne by SSIT and otherwise incurred outside P.R.C shall be borne by VIL. The Letter of Credit shall be in conformity with the ICC 500, 1993. "Uniform Customs and Practice for Documentary Credits".

2. Payment terms for Technical supervision and instruction service

VIL shall pay to SSIT for the technical supervision and instruction service and interpretation service as stipulated in Clause B above by T/T within ten (10) calendar days of submission of one copy monthly working time sheet of SSIT's personnel signed by representatives of VIL and SSIT, along with two original copies of the commercial invoice with monthly service expense.

3. Payment terms for Training

VIL shall pay to SSIT for the training fee as stipulated in Clause C above by T/T in advance 30 days before the trainees from VIL arrive for training in China.

H. PERFORMANCE GUARANTEE

The performance guarantee of the coke oven for the production of coke should be as follows:

1. Coking time: Not greater than 66 - 68 hours.
2. Coke Production: Greater than 400,000 MT on dry basis within 12 (twelve) months from the date of commissioning under normal operation.

3. SSIT shall guarantee that the following coke quality, moisture and size shall be achieved

Coke Quality

S. No.	Tech. Particulars	
1.	Moisture	5% max.
2.	Volatile Matter	1% max
3.	Ash	12% max
4.	Sulphur	0.6% max
5.	Phosphorus	0.04% max
6.	Micum 40 Micum 10	86 min 7 max
7.	CSR CRI	68 min 25 max
8.	Size Below 25mm	15% max

SSIT guarantee that to achieve the above coke specification, the following coal blend quality is sufficient with blend of 50% of hard coking coal and 50% of weak coking coals/anthracite/thermal coal. However, the coal blend and ratios of hard coking coal and weak coking coals/anthracite/thermal coal shall be re-confirmed after laboratory testing of the specific coals.

Coal Blend Quality

S. No.	Tech. Particulars	max/min tolerance limits
1.	Total moisture	10% max.
2.	Proximate analysis (Air dry basis BS 10.16) a) Volatile Matter b) Ash c) Sulphur d) Phos	19-28% 9% max. 1% max. 0.05-0.08%
3.	Crucible swelling No. (CSN-ISO/501)	5 min
4.	Fluidity (ddpm)	150 min
5.	a) Mean max. Reflectance of Vitrinite (ISO/501) b) Vitrinite %age (ISO/7404)	1 min to 1.4 max. (Avg 1.2) 45% min.

4. Life of Oven & Refractory: 15 years from date of commissioning

5. Emission level:

➤ Standard Particulate Matter (SPM) for coke oven chimney	<50mg/Nm ³
➤ SPM for coke oven chimney during charging	<25mg/Nm ³
➤ SPM for coke oven chimney during coke pushing	< 5mg/Nm ³
➤ Nox at coke oven chimney	<500mg/Nm ³
➤ Particulate emission in quenching operation	<50mg per ton coke cooled

The emission level in the steam generated from quenching should be in line with the Pollution Control norms in India.

6. Gross coke yield on dry basis at different VM levels in coal blend as follows:

<u>VM</u>	<u>Yield</u>
20%	> or = 78%
21%	> or = 77%
22%	> or = 76%
23%	> or = 75%

7. Flue/Waste gas heat temperature in 22 ovens only:

- a) Temperature : greater than 900°C
- b) Volume : greater than 36,900 Nm³/hr.

8. Normal Temperature of oven in the combustion zone: 1250-1350°C

9. Coal cake: > 49MT with moisture, or > 44.1MT on dry basis.

10. Stamping Car to be designed such that Compression achieved in Coal Cake shall have a Bulk density greater than 1050 kg/cu.m.

11. Average Thermal fluctuation during the pushing and charging of the ovens will not exceed 180 degrees centigrade in the roof dome.