

LIST OF SCIENTIFIC PUBLICATIONS BY RESEARCH SCIENTISTS OF **CSIR - CROPS RESEARCH INSTITUTE** (1995 - 2020)



Volume 1 (1995 - 2010)

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PREFACE

This compilation covers lists of Refereed Journal Papers, Conference Papers, Technical Reports, Books, Book Chapters, Newsletter articles, Production/Training Guides and Manuals, Research Briefs and others authored by Research Scientists of CSIR-Crops Research Institute (CSIR-CRI) and other collaborating scientists, from their research findings. It may not be a complete list but “Half a loaf is better than none”.

For some of the Refereed Journal Papers the authors initially indicated that the manuscripts had been submitted to a Journal for publishing. Some were later found published and it is expected that the others may be found later. For some published journal papers the volume number and pages of the Journal cited were not indicated. In some cases only the list of authors, year and title were found. All these have been listed so that if the authors can be identified and located (possibly at conferences and other meetings or at CSIR-CRI) they may be consulted for the desired publication.

The Technical Reports listed include reports on donor-supported programmes, consultancies and reports submitted to the National Variety Release and Registration Committee, prior to the release of improved crop varieties developed at CSIR-CRI. Some Research reports submitted internally to the Director of CSIR-CRI as Annual Reports by the Research Scientists have also been listed.

Minimum editing was done during the compilation to avoid misrepresentation. For example for the same conference, details of the date and location varied among some participants. Effort was made to minimise duplication. For example where a conference paper was later published as a refereed journal paper the latter is listed with a note indicating where it had earlier been presented as a conference paper.

Among the Authors listed the names of the Research Scientists of CSIR-CRI are in **bold** letters for easy identification. If any of such names is not in bold letters it may be due to oversight. Some research scientists who had left the Institute but were co-authors with their colleagues at the Institute have also been listed as CSIR-CRI staff for convenience.

It is expected that this work shall encourage research scientists to get their research findings published to debunk the old time notion that *research findings are gathering dust on the shelves*. Thus the contribution of CSIR-CRI Research Scientists to agricultural development globally, and in Ghana in particular, cannot be overlooked.

ACKNOWLEDGEMENT

To God be the glory for endowing us with good health, wisdom and the spirit of persistence and cooperation needed to undertake this exercise.

The support from Professor M.B. Mochiah, Director of CSIR-Crops Research Institute, that made the dream a reality, is very much appreciated.

The kind gesture of all research scientists who voluntarily provided a list of their scientific publications is also appreciated.

The support from Mrs Lawrencecia Donkor and Mr. Ransford Asamoah is also greatly appreciated.

OBJECTIVES

This work was done with the following objectives:

- a. To make known the contribution to global Body of Knowledge by Research Scientists of CSIR-CRI, particularly in the area of Agricultural Research.
- b. To serve as a reference and a guide to “new and young” research scientists at CSIR-CRI and elsewhere, as to research activities (Titles) that have been carried out at the Institute, the scientists (Authors) who did the work, when (Year) the work was done and how the findings or results have been disseminated. This may help to identify areas for further investigations while avoiding “re-inventing the wheel” with limited resources.
- c. To make known the extent of collaboration between Research Scientists of CSIR -CRI and other Institutions (local and international) as reflected in the authorship of the various publications.
- d. To make known the communication channels / media used by CSIR-CRI research scientists to share and disseminate their research findings. Apart from the usual scientific publications (Refereed Journal Papers, Conference papers, etc) CSIR-CRI scientists occasionally organised programmes with Radio (FM) *stations* where research findings were disseminated. The scientists also gave lectures during training programmes organised for students and front line staff of the Ministry of Agriculture. Other channels of dissemination used by CSIR-CRI (not listed) include exhibitions attended to showcase research products and field demonstrations held with extension workers and farmers throughout the country.

CSIR-CRI SCIENTIFIC PUBLICATIONS (1995 – 2010)

1995 PUBLICATIONS

Refereed Journal Papers

Aflakpui, G.K.S. (1995). Some Uses/Abuses of Statistics in Crop Experimentation. *Tropical Science* 35: 347-353.

Morrison, I.M., **Asiedu, E.A.**, Stuchbury, T. and Powell, A.A. (1995). Determination of *Lignin* and *Tannin* Contents of Cowpea Seed Coats. *Annals of Botany*, 76, 287-290.

Nkansah, G.O. and Ito, T. (1995). Comparative studies on growth and development of heat tolerant tomato plants grown at different root-zone temperatures. *Journal of Japanese Society for Horticultural Science*, Vol. 62 (4): 773-778.

Nkansah, G.O. and Ito, T. (1995). Comparison of mineral absorption and nutrient composition of heat-tolerant and non-heat-tolerant tomato plants grown at different root-zone temperatures. *Journal of Horticultural Science*, Vol. 76 (3):453- 460.

Sagoe, R. and Osafo, D.M. (1995). Seedling Emergence of Two Soyabean Varieties under Different Management Systems. *Tropical Oilseeds Journal* 2: pp. 28-36.

Sallah, P.Y.K., Badu -Apraku, B. and **Twumasi-Afriyie, S.** (1995). Comparison of Intermediate and Full-Season Maize Varieties for Grain Productivity in Ghana. *Legon Agric. Res. & Ext. J.* 4, 61-68.

Shoyinka, S.A., Thottappilly, G., Adebayo, G.G. and **Anno-Nyako, F.O.**, (1995). Survey of Cowpea Virus Incidence and Distribution in Nigeria. *International Journal of Pest Management*, 1997, 43, 2, 127-132. (Similar title was presented at the 2nd World Cowpea Research Conference held at the Accra International Conference Center, Accra, Ghana. September 4-8, 1995).

Conference Papers / Abstracts / Posters

Adu-Dapaah, H.K. and Asare, E.O. (1995). Cocoa pod ash as a source of potash fertilizer. In: *Proceedings of Seminar on Organic and Sedentary Agriculture*. Accra, Ghana. November 1-3, 1995. Pp 157 – 163. (Akita, V., Schodder, P. and Bemile, S.K., Eds).

Adu-Dapaah, H.K. and Asare, E.O. (1995). Response of Maize to Cocoa Pod Ash and Muriate of Potash. In: *Proceedings of a Regional Maize Workshop*. IITA, Cotonou, Benin Republic. May 29 - June 2, 1995. (Badu-Apraku, B., Akoroda, M.O., Ouedraogo, M. and Quin, F.M., Eds.).

Adu-Tutu K., Boa-Amponsem, K. and Bolfrey-Arku, G. (1995). No-till Planting with Glyphosate Dry Formulation in Ghana. *Agronomy Abstracts: Division A-6*, p. 45. *American Society of Agronomy, Crop Science Society of America, Soil Science Society of America 1995 Annual Meetings*. St. Louis, Missouri. (Similar title presented at the 2nd National Workshop on Food and Industrial Crops, Kumasi. October 24-26, 1995).

Afun, J.V.K., Heinrichs, E.A., Johnson, D.E. and Russell-Smith, A. (1995). The influence of weeds in the natural control of upland rice insect pests in Cote d'Ivoire. *Brighton Crop Protection Conference – Weeds; 1995*. pp. 181-186.

Anchirinah, V.M., Apau, A.O. and Dankyi, A.A. (1995). Seed Marketing. *Paper presented at the Seed Technology Training Course for Beninois, July 10-22, 1995*.

Anno-Nyako, F.O., Owusu-Akyaw, M. and Twumasi, J.K. (1995). The Incidence of Rice Yellow Mottle Virus (RYMV) in some major Rice Producing Areas of Ghana. *Paper presented at the 2nd National Workshop on Food and Industrial Crops*. KTI, Kumasi, Ghana. October 24-26, 1995. (Similar title presented at the 5th Rice IPM Task Force Meeting at WARDA, Bouake, Cote d'Ivoire in 1996).

Anno-Nyako, F.O., Twumasi, J.K. and Owusu-Akyaw, M. (1995). The threat of Rice Yellow Mottle Virus (RYMV) to rice production in Ghana. *Paper presented at the First International Rice Yellow Mottle Virus Symposium at Bouake, Cote d'Ivoire*. September 18-22, 1995.

Asafo-Adjei, B., Atuahene-Amankwa, G., Ennin-Kwabia, S., Adu-Dapaah, H.K., Hossain, M.A. and Soza, R.F. (1995). Grain Legumes Research and Production in Ghana. *In Agronomy Abstracts, Crop Science Society of America*. pp. 45.

Asafo-Adjei, B., Marfo, K.O., Atuahene-Amankwa, G., Hossain, M.A., Owusu-Akyaw, M. and Afun, J.V.K. (1995). Cowpea Breeding in Ghana. Past, Present and the Future. *Poster presented at the 2nd World Cowpea Research Conference*. Accra International Conference Centre, Accra, Ghana. September 4-8, 1995.

Asafo-Agyei, J.N. (1995). The Role of Legumes in Soil Fertility Improvement. Technological Interventions to Improve Soil Fertility. *Proc. Seminar on Organic and Sedentary Agriculture organized by Ministry of Food and Agriculture, Ghana and Deutsche Gesellschaft fur Technische Zusammenarbeit*. Accra, Ghana. November 1-3, 1995. (Akita, V., Schroder, P., Bemile, S.K., Eds.)

Asafo-Agyei, J.N., Ahenkora, K., Banful, B. and Ennin-Kwabiah, S. (1995). Sustaining food production in Ghana: The role of cereal/legume-based cropping system. In: *Proc. Regional Workshop on Technology Options and Transfer Systems for Sustainable Agricultural Production in Sub-Saharan Africa, Cote d'Ivoire*, pp. 409-416. (Bezuneh, T., Emechebe, A.M., Sedgo, J. and Ouedraogo, M., Eds).

Ashun, M.D. and Asante, B. (1995). *In vitro* conservation efforts in the Department of Botany, University of Ghana, Legon. *Paper presented at a Symposium organised by Ghana Academy of Arts and Sciences on Production of seed yam and propagules of other vegetatively propagated crops.*

Boa-Amponsem, K., Aflakpui, G.K.S., Asafo-Adjei, B., Hossain, M.A. and Soza, R.F. (1995). The On-farm Research Experience of the Ghana Grains Development Project (GGDP). *Agronomy Abstracts: Division A-5, p.45. American Society of Agronomy, 1995 Annual Meetings. St. Louis, Missouri. October 29 - Nov. 3, 1995. .*

Bolfrey-Arku, G.E. (1995). Stubble Mulching for Weed Control in Maize. In: *Sedentary Agriculture by Organic Farming. Proceedings of Seminar on Organic and Sedentary Agriculture. STEPRI, CSIR, Accra, Ghana. June 1-3, 1995. pp. 112-122. (Akita, V., Schroder, P. and Bemile, S.K., Eds).*

Dankyi, A.A., Anchirinah, V.M. and Apau, A.O. (1995). The Agricultural Policies of the Industrial Countries and the Need for Efficient Production in the Third World. *Paper presented at the Second National Workshop on Food and Industrial Crops. Kumasi Technical Institute, Kumasi, Ghana. October 24-26, 1995.*

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Dapaah, H.K., McKenzie, B.A. and Hill, G.D. (1995). Response of pinto beans (*Phaseolus vulgaris* L.) to irrigation, sowing date and inoculation. *Proceedings of the Meeting of the Agronomy Society of New Zealand. 25: 13-19.*

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Hemeng, O.B., Banful, B. and Twumasi, J.K. (1995). Plantain Production in Ghana. In: *Proc. Regional Workshop on Plantain and Banana Production and Research in West and Central Africa. IITA, Nigeria. September 23-27, 1995. Pp. 39-42. (Ortiz, R. and Akoroda, M.O., Eds).*

Okai, E., Kissiedu, A.F.K., Otoo, J.A., Afuakwa, J.J., Asare-Bediako, A., Missah, A., Sagoe, R., Okoli, O.O. and Dixon, A.G. (1995). Yield Evaluation of Cassava Clones in Ghana using the Additive Main effect and Multiplicative Interaction (AMMI) Model. In : *Proc. Sixth Triennial Symposium of the International Society for Tropical Root Crops (ISTRC) - Africa Branch (AB)*. Lilongwe, Malawi. October 22-28, 1995. Pp. 231-235. (Akorada, M.O. and Ekanayake, I.J., Eds).

Opoku Asiama and **Owusu, E.O.** (1995). Effect of a Pest Complex of *Nesidiocoris tenuis*, *Bemisia tabaci* and Tomato Leaf Curl Virus on Growth and Yield of Tomato. *Paper presented at the 15th West African Science Association Conference in collaboration with the Ghana Science Association*. University of Cape Coast, Ghana. Sept. 17-22, 1995.

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Otoo, E. and Asubonteng, K.O. (1995). Reconnaissance characterization of Inland Valleys in Southern Ghana. *Paper presented at the 1st Scientific Workshop of the Inland Valley Consortium*. WARDA, Bouake. 1995.

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Otoo, J.A., Al-Hassan, R., Kissiedu, A.F.K. and Alhassan, A.Y. (1995). Impact of Market Forces on Cassava Production in Ghana: Implication for Research. *Paper presented at the 6th Triennial Symposium of ISTRC-AB*. Lilongwe, Malawi. October 22-28, 1995.

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Twumasi, J.K. (1995). The Grain Discoloration Syndrome of Rice in Ghana. *Paper presented at the Fourth annual meeting of West Africa Rice Development Association Integrated Pest Management Task Force. Bouake, Cote d'Ivoire. March 15-17, 1995*

Twumasi, J.K. and Adu-Tutu, K.O. (1995). Weeds and fungal diseases of rice in selected inland valleys in Ghana. *Paper presented at the Fourth annual meeting of WARDA IPM Task Force. Bouake, Cote d'Ivoire. March 15-17, 1995.*

Twumasi-Afriyie, S., Sallah, P.Y.K., Owusu -Akyaw, M., Ahenkora, K., Soza, R.F., Haag, W., Dzah, B.D., Okai, D.B. and Akuamoah-Boateng, A. (1995). Development and promotion of quality protein maize in Ghana. In: *Contributing to food self-sufficiency: Maize Research and Development in West and Central Africa. Proceedings of a Regional Maize Workshop. IITA, Cotonou, Benin. May 29 - June 2, 1995. pp. 140-148. (Badu-Apraku, et al., Eds.).*

Technical Reports

Ahenkora, S., Akpalu, E., Kerr, J., **Marfo, K.A.**, Izen-Appiah, F. (1995). Gender and the implementation of structural adjustment in Africa: Examining the micro-meso-macro linkages – The Ghana study. *Report on a Research Study under the Structural Adjustment and Gender in Africa (SAGA) Initiative, Canadian International Development Agency.*

Asafu-Agyei, J.N. (1995). The Status of Cowpea Research and Development Work in Ghana. A Review of Research Work on Cowpea in Ghana. *Crops Research Institute, CSIR, Kumasi, Ghana. 24pp.*

Dankyi, A.A., Anchirinah, V.M., Apau, A.O., Ansere-Bioh, F. and Asafo-Adjei, B. (1995). The Diffusion and Impact of Cowpea Technologies in Ghana. A Survey Report.

Dankyi, A.A., Anchirinah, V.M., Apau, A.O., Ansere-Bioh, F. and Asafo-Adjei, B. (1995). Soybean Production, Marketing and Utilization in Ghana. *An Informal Survey Report.*

Gerner, H., Asante, E.O., Owusu-Bennoah, E. and **Marfo, K.A.** (1995). Ghana fertilizer privatization scheme: Private sector roles and Public sector responsibilities in meeting the needs of farmers. *Fertilizer Sector Studies in Africa Vol. 5. International Fertilizer Development Center, Muscle Shoals, Alabama.*

Hemeng, O.B., Asafo-Adjei, B., Otoo, E. and Banful, B. (1995). Mid Term Review of NARP Special projects. *Report submitted to the National Agricultural Research Project (NARP) Secretariat, CSIR, Accra. 27 pp.*

Hemeng, O.B., Oduro, K.A., Ofori, I. and Banful, B. (1995). Plantain Production in Ghana. *Final Report on a Field Survey submitted to National Agricultural Research Project (NARP) Secretariat, CSIR, Accra, Ghana. 63 pp.*

Kasei, C.N., Mercer-Quarshie, H. and **Sallah, P.Y.K.** (1995). Identifying Probable Dry Periods in Maize Production under a Monomodal Rainfall Regime in Northern Ghana. In: *Contributing to Food Self-sufficiency: Maize Research and Development in West and Central Africa. Proceedings of a Regional Maize Workshop. IITA, Cotonou, Benin. May 29 - June 2, 1995, pp. 255-263. (Badu-Apraku, et al., Eds.).*

Marfo, K.A., Ntow Afua, Ohemeng-Dapaah, S. and Osei-Yeboah, S. (1995). Socio-Economic Survey of Farming Systems in Ghana.

Owusu-Akyaw, M. and Afun, J.V.K. (1995). Towards Environmentally -safe Control of Cowpea, Maize and Rice Insect Pests. *Document submitted to National Agricultural Research Programme (NARP) Secretariat, CSIR, Accra. (To be considered for the Best National Agricultural Research Award, 1995; 81 pages).*

Peprah, S.A. (1995). Effects of planting sequence and time on yields in cowpea/cassava intercrop systems. *Annual Report submitted to the Director of CRI, Kumasi.*

Safo-Kantanka, O., Owusu-Nipah, J., Aquistucci, R., Osei Minta, M., **Aubyn, A.** and Quansah, C. (1995). Contribution to the Understanding of Cooking Quality of Cassava (*Manihot esculenta* L. Crautz).

Twumasi, J.K. (1995). Survey Report on the Identities, Importance, Distribution, Control/Management Options of Diseases Affecting Vegetable Production in Brong-Ahafo Region of Ghana – Dry season 1994, and major (wet) season, 1995.

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Adu-Mensah, J. (1995). Insect and Mite Pests of Root and Tuber Crops. *CRI Crop Management Research Training Guide. No. 58. CRI, Kumasi, Ghana.*

Afuakwa, J.J. (1995). Root Crops Improvement. *CRI Crop Management Research Training Guide, No. 56. CRI, Kumasi, Ghana.*

Anno-Nyako, F.O. (1995). Important Virus Diseases of Some Legumes in Ghana and their Control. *CRI Crop Management Research Training Guide. CRI, Kumasi, Ghana.*

Anno-Nyako, F.O. (1995). Important Virus Diseases of Some Root and Tuber Crops in Africa. *CRI Crop Management Research Training Guide, No. 66. CRI, Kumasi, Ghana.*

Asafu-Agyei, J.N. and **Asare-Bediako, A.** (1995). Cropping Systems and Sustainable Agricultural Production. *CRI Crop Management Research Training Guide. CRI, Kumasi, Ghana.*

Bolfrey-Arku, G. and **Adu-Tutu, K.O.** (1995). Weed Management in Root and Tuber Crops. *CRI Crop Management Training Guide. No. 57. CRI, Kumasi, Ghana.*

Osei-Bonsu, P. (1995). Past and Present links between Agricultural Research and Production. *Training manual updated annually for the Annual Soil and Water Management Course held in Kumasi (from 1995 to 2000).*

Sagoe, R. (1995). Agronomy of Cocoyam. *CRI Crop Management Research Training Guide. No. 3. (Ashiamah, S.R.K. and Ansah, I.O.O., Eds).*

Sallah, P.Y.K. and **Twumasi-Afriyie, S.** (1995). Development and Seed Production of Open-Pollinated Maize Variety. *CRI Crop Management Research Training Guide No.48. CRI, Kumasi. 40 pp.*

Twumasi, J.K. (1995). Diseases of Root and Tuber Crops. *CRI Crop Management Research Training Guide. CRI, Kumasi, Ghana.*

Twumasi, J.K. (1995). Management of Storage Diseases in Root and Tuber Crops. *CRI Crop Management Research Training Guide. CRI, Kumasi, Ghana.*

1996 PUBLICATIONS

Refereed Journal Papers

Aflakpui, G.K.S. (1996). Constant temperatures and the rate of seed germination in maize (*Zea mays* L.) of contrasting endosperms. *Ghana Journal of Agricultural Science* 1996, 29 (2) 33- 38.

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Asafu-Agyei, J.N., Marfo, K.A. and **Ahenkora. K.** (1996). Sustaining Cassava Production in Ghana: Future Prospects. *Submitted to West African Farming Systems Research Network (WAFSRN) Journal, P.M.B. 1044, ABU, Zaria, Nigeria.*

Asiedu, E.A. and Powell, A.A. (1996). Comparison of the storage potential of cultivars of cowpea (*Vigna unguiculata*) differing in seed coat pigmentation. *Seed Science and Technology*, 26, 211-221.

Carson, A.G. and **Otoo, E.** (1996). Application of Soil Solarization to Control Root Knot Nematodes and Weeds in Transplanted Tomato. *Ghana Journal of Agricultural Science. Vol. 29. Part 2. pp 91-98.*

Sarfo-Kantanka, O., Quansah, C. and **Aubyn, A.** (1996). Effects of mulching on the yield and cooking quality of cassava (*Manihot esculenta* L. Crantz). *Submitted to Journal of University of Science and Technology.*

Newsletter Publications

Osei-Bonsu, P., Buckles, D., Soza F.R., and **Asibuo J.Y.** (1996). Traditional food uses of *Mucuna pruriens* and *Canavalia ensiformis* in Ghana. *ILEIA Newsletter* 12 (2) pp. 30-31.

Osei-Bonsu, P., Buckles, D., Soza, F.R. and **Asibuo, J.Y.** (1996). Edible Cover Crops. *ILEIA Newsletter for Ecologically Sound Agriculture. ILEIA Leusden, The Netherlands.*

Conference Papers/Abstracts

Adu-Mensah, J. (1996). Biological control of variegated grasshoppers (*Zonocerus variegatus*): The use of fungal pathogens.

Adu-Tutu, K.O., Bolfrey-Arku, G. and **Kwarteng, A.Y.** (1996). A Survey of Weeds in Rice Fields in Southern Ghana. *Paper presented at the 5th Annual Meeting of WARDA Integrated Pest Management Task Force. Bouake, Cote d'Ivoire. March 20 -22, 1996.*

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Anchirinah, V.M. (1996). Participation in Research: A new fashion or a needed change? *Paper presented at a seminar at Crops Research Institute, Kumasi.*

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Bolfrey-Arku, G. E-K. (1996). Farming systems in the Coastal Savannah Zone of Ghana. *Paper presented at the International Training Course on Farming Systems Development. Feldafing and Witzenhausen, Germany. April 3 – May 2, 1996.*

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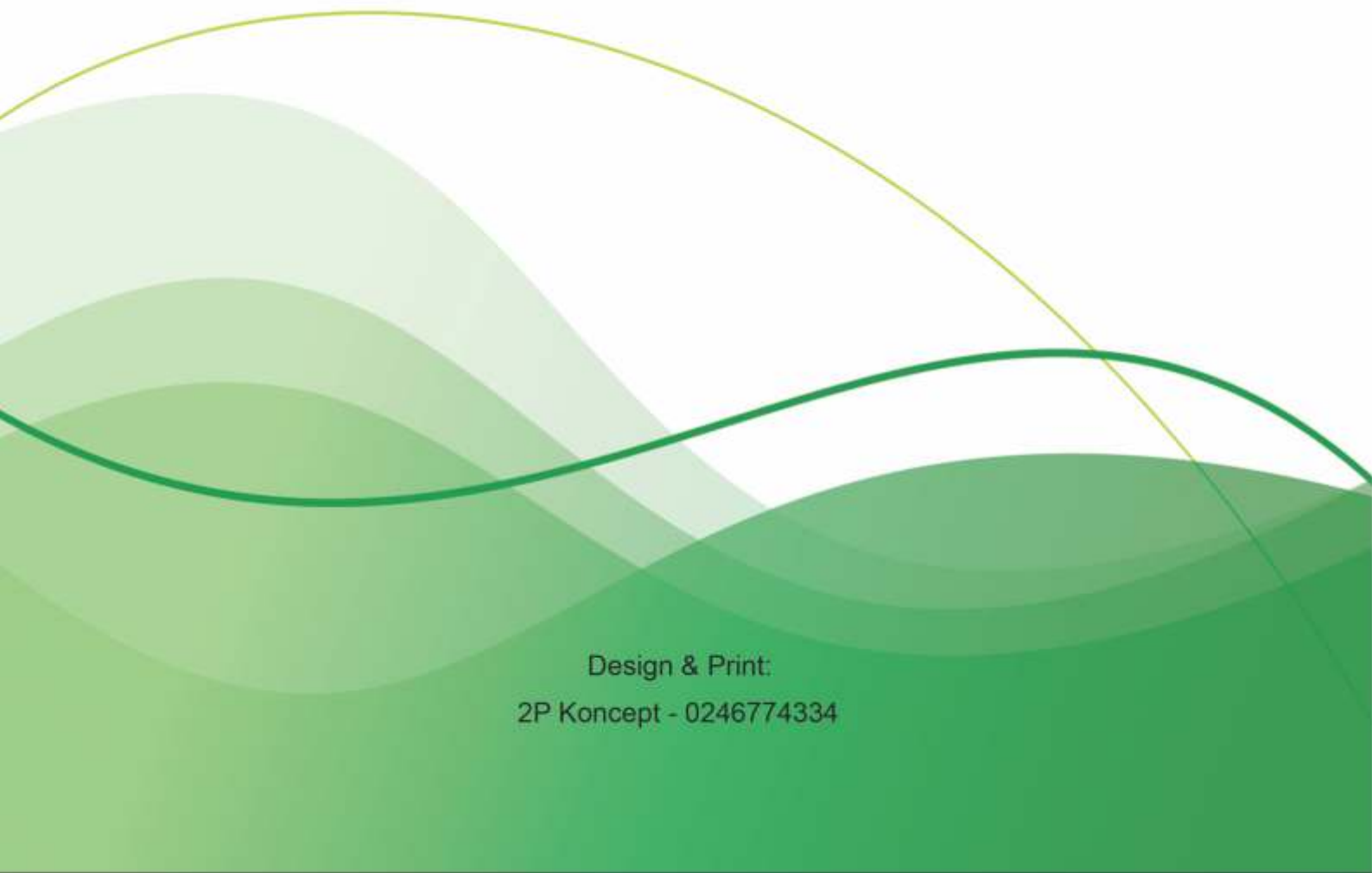
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